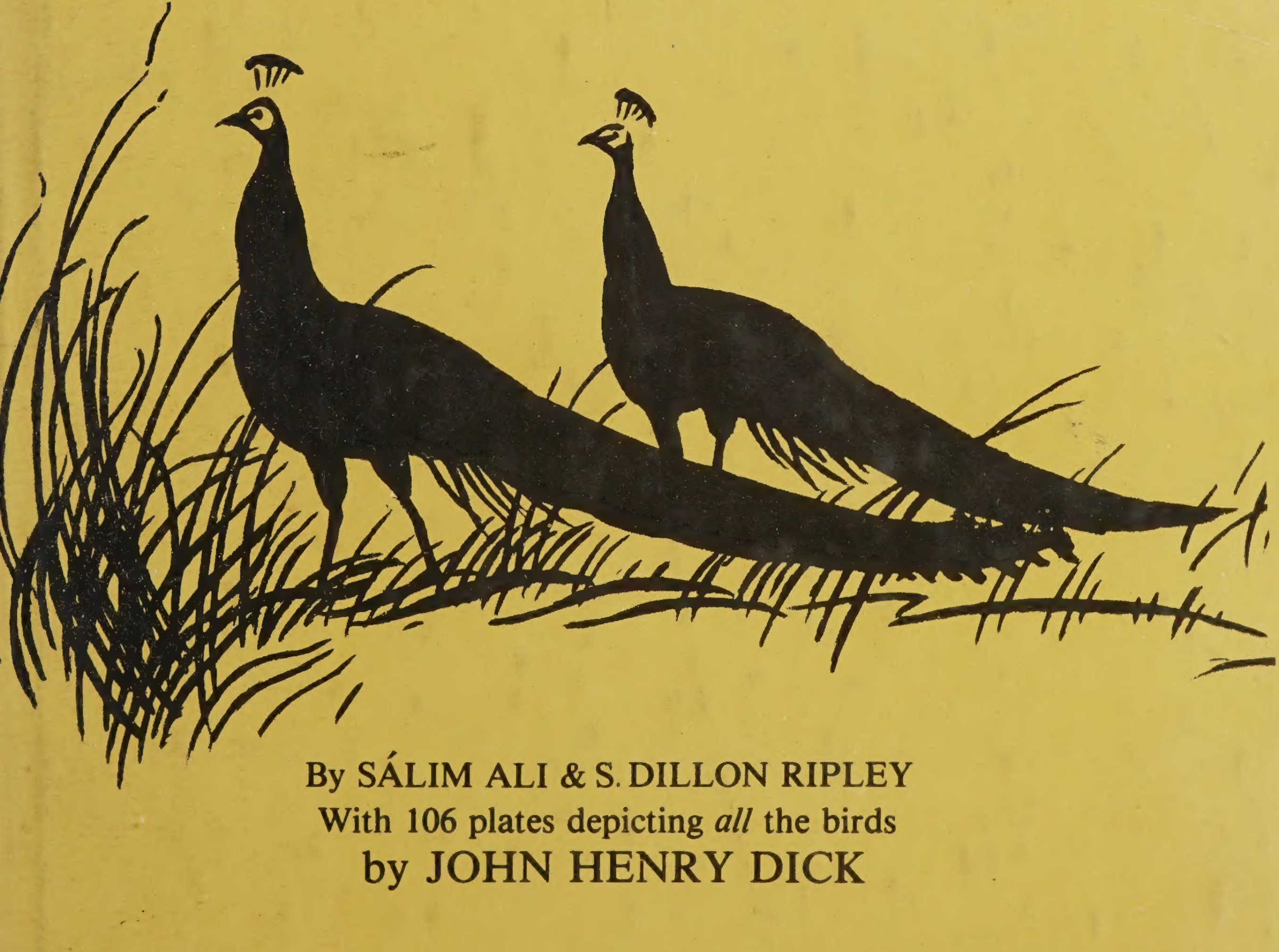
A PICTORIAL GUIDE to the BIRDS of the Indian Subcontinent



By SÁLIM ALI & S. DILLON RIPLEY
With 106 plates depicting *all* the birds
by JOHN HENRY DICK

BOMBAY NATURAL HISTORY SOCIETY
Centenary Publication

Identifying birds correctly in the field is the first step to enjoyable and meaningful bird watching. For the beginner or inexpert casual watcher proper guidance is essential. Personal guidance by a competent field-ornithologist is of course the best form of learning, but it is not always readily available. The second-best aid to mastering the art is through good colour illustrations. Good colour pictures and simple descriptions are to be found in several recent bird books, but these are mostly of a regional character and even as such the illustrations cover only a small proportion of the total bird fauna of their respective areas. The only comprehensive work on birds covering the Indian subcontinent as a whole, *Handbook of the birds of India and Pakistan,* contains only some 900 illustrations out of the 1220+ species described from the area. Even these are spread out on 113 plates over the 10 volumes comprising the set, scattered among the text pages of each volume.

This Pictorial Guide is unique in that it depicts *all* the bird species found in the Subcontinent arranged family-wise on 106 plates which follow one another in systematic order and are thus easy to find. The excellent illustrations, moreover, have the advantage of consistency in quality, all being the work of a single artist, the well known American bird painter John Henry Dick. They make supplemental verbal descriptions of the birds redundant, but concise information concerning status, size, habitat and distribution within subcontinental limits has been provided.

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INTRODUCTION

Specific identification is the ABC of meaningful bird watching as much as of scientific field research. Howsoever significant a field observation, its importance is lost unless the concerned species is correctly identified. For the untutored beginner good illustrations of birds, preferably in colour, are fundamental. The truth of this was clearly demonstrated by Hugh Whistler's pioneering *Popular Handbook of Indian Birds* first published in 1928, in creating and developing an interest in birds and bird watching among the Indian public where it was practically non-existent before. Although the Popular Handbook contained only a few illustrations of the birds described in the text, and fewer still in colour, it triggered an immediate spurt of interest in birds and bird watching, necessitating a second edition of the book in 1935 followed soon by a third edition and a fourth.

In 1941 Bombay Natural History Society (BNHS) first published *The Book of Indian Birds* by Sálim Ali describing 181 species of the commoner birds, all of which were shown in colour. The popularity of The Book, largely due to this feature, has necessitated further editions every few years, each edition enlarged progressively by the inclusion of a few more species, till the latest, eleventh, published in 1981, contains accounts and colour illustrations of 280 species. However, this represents merely a small fraction of our total avifauna, and it was desirable to illustrate many more species if Indian ornithology was to be better served. Salim Ali and S. Dillon Ripley attempted to do this in the 10 volumes of their *Handbook of the birds of India and Pakistan* (1969-74) which contains colour illustrations of some 900 species of the 1200+ found in the Indian subcontinent, therefore still considerably short of the total. Moreover, the plates in the Handbook are spread over 10 separate volumes which makes the locating of individual species inconvenient and time-consuming since even in these plates the illustrations are not in systematic order, familywise. Under these conditions Bombay Natural History Society feels particularly gratified in its opportunity to publish, with the far-sighted sponsorship of U.S. Fish and Wildlife Service and Smithsonian Institution, Washington, this immaculately executed set of 106 plates (73 coloured, 33 black-and-white) by the well-known American bird painter John Henry Dick, depicting 1241 species of the Indian subcontinent. These include a few extralimital ones (EL) from just across our borders which could well be found within our territory at one time or another. Not only are the species systematically arranged in the plates, family by family, but in many cases both male and female as well as juvenile plumages and colour variants are also shown. The publication is particularly gratifying also because the sponsors intend it to be a non-profit undertaking in order to assure its widest possible distribution among low- and middle-income groups and among government and private scientific, cultural and educational institutions, and for the widest diffusion of knowledge concerning our rich ornithological heritage to enable well informed public participation in the conservation of wildlife and its habitats, and thus in the preservation of a healthy natural environment.

ACKNOWLEDGEMENTS

For various courtesies received by the artist, John Henry Dick, in the course of preparation of the plates, he wishes to thank the following institutions and individuals:

American Museum of Natural History, New York for making available their magnificent collection of Indian bird skins.

U.S. Fish and Wildlife Service (Department of Interior) for their financial assitance, their whole hearted support and encouragement of this book from start to finish, and their belief that a complete illustrated volume on the birds of the Indian subcontinent would make a considerable contribution to scientific bird study and conservation as well as provide a handy reference for the general Indian public which is just awakening to the richness of its wildlife heritage.

Gerry (Gerard) Bertrand who was initially concerned with this project till his departure from FWS in 1980, and thereafter David Ferguson without whose active involvement in the catalytic role played by FWS throughout the protracted vicissitudes of the project it might never have materialzed.

Ben King—who first conceived the idea of a complete illustrated guide to all the birds of greater India. Thanks also for his original text and his careful selection of the AMNH skins;

also for photographing rare specimens that could not leave the Museum.

Appreciaton must also be accorded to the New York Zoological Society but for whose financial encouragement to Ben King in the initial stages this ambitious project might never have got off the ground.

On the Indian side, Bombay Natural History Society gratefully acknowledges the munificent gesture of the artist and the authors in waiving their claim to a royalty on this publication in favour of the Society. This they have done as a token of their admiration for the seminal work the Society has done in arousing public interest and awareness in Nature and Nature Conservation in India during the century of its existence. The useful suggestions and painstaking secretarial assistance rendered by Archna Mehrotra in the preparation of the captions and their coordination with the illustrations have helped greatly in expediting the work, and are thankfully acknowledged by the senior author.

EXPLANATIONS AND ABBREVIATIONS

The term SUBCONTINENT as used in this book includes the entire country south of the Himalayas—peninsular and continental India with its north-eastern extension into China and Burma It also includes Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. Overall, the area lies between latitudes 10° 30' and 40° N, and between longitudes 60° and 96° 30' E. Some of the other terms and abbreviations employed in the captions also need to be spelled out. The excellent illustrations by John Henry Dick are sufficiently diagnostic by themselves not to need supplemental verbal descriptions. Omission of the latter, and the use of abbreviations, has enabled the adoption of a space-saving format—also more convenient for quick reference—of having the complete captions on the facing page of each plate. Of the numerals preceding the species-name in the caption, the first corresponds with the species number in *Handbook of the Birds of India and Pakistan* by Sálim Ali and S. Dillon Ripley (1969-74) for ease of cross reference should more information on the species be desired. The second number (in brackets) identifies the illustration in the facing plate.

The following abbreviations have been used in the captions:

V = Vagrant (or occasional stray)

R = Resident. Also covers local migrant, i.e. birds that breed in one part of the Subcontinent in one season and move to other parts within the country in a different season, e.g. Pitta

M = Migrant (extralimital, chiefly long-distance)

RM = Resident with migratory populations (subspecies)

EL = Extralimital

ECLIPSE PLUMAGE. In certain families, e.g. Ducks (Anatidae), the males don a distinctive breeding plumage in summer and revert to a female-like (or eclipse) plumage in winter. The sexes are then difficult to distinguish. S (summer) and W (winter) against the illustration identify these seasonal plumages.

BIRDS OF PREY or RAPTORS often have very different and highly confusing plumages as adult, immature and juvenile. Moreoever, in addition to the normal plumage they (and also some other birds) frequently have a dark phase (or morph) and a pale phase, with sometimes an intermediate one. All birds illustrated here are in adult plumage unless otherwise stated. The following abbreviations and symbols are used in the plates:

ad- = Subadult
imm = Immature
juv = Juvenile
S = Summer
W = Winter
br + = Breeding
br- = Non-breeding
↓ = From above   for birds in flight
↑ = From below
● = Dark phase
o = Pale phase
◒ = Intermediate phase

The word 'Seasonally' before the numerals for altitude in the case of montane birds, signifies the limits within which the bird moves, the lower figure for winter, the higher for summer.

A comparison with some common and familiar bird as a standard to give a rough indication of size is helpful in field identification. Chiefly the following standards have been used in this book:

Sparrow 15 cm (6 in.)
Quail 18-20 cm (7-8 in.)
Bulbul 20 cm (8 in.)
Crow 42 cm (17 in.)
Kite 60 cm (24 in.)
Duck 60 cm (24 in.)

Myna 23 cm (9 in.)
Pigeon 32 cm (13 in.)
Patridge 32 cm (13 in.)
Village hen 45-70 cm (18-28 in.)
Vulture 90 cm (36 in.)

Plus (+) and minus (−) signs indicate whether the bird is bigger or smaller than the standard. Plus/minus (±) means that it is more or less the same size as the standard. The size in centimetres is also a rough approximation, and it must be treated as such.

HIMALAYAS (when used by itself) stands for the entire range west to east, including the 'command areas' along its base.

W HIMALAYAS extend from the westernmost limit of the range eastward to west-central Nepal and include the sections in Hazara, NWFP, Kashmir, Himachal Pradesh, Kumaon and Garhwal.

E HIMALAYAS extend from east-central Nepal eastward to NE Arunachal Pradesh and include the sections in Sikkim, Darjeeling district (W Bengal) and Bhutan.

NE HILL STATES include Meghalaya, Nagaland, Manipur, Mizoram, Tripura and, for our purpose, also the contiguous district of Chittagong in Bangladesh.

W GHATS COMPLEX stands for the entire range (Sahyadris), north to south, including the Nilgiri, Palni, Annamalai, and the associated hills of Karnataka, Tamil Nadu and Kerala.

E GHATS COMPLEX stands for the entire range north to south, including the Visakhapatnam ghats and the Nallamalai, Palkonda, Seshachalam, Shevaroy and associated hills of Tamil Nadu, Andhra Pradesh and Orissa.

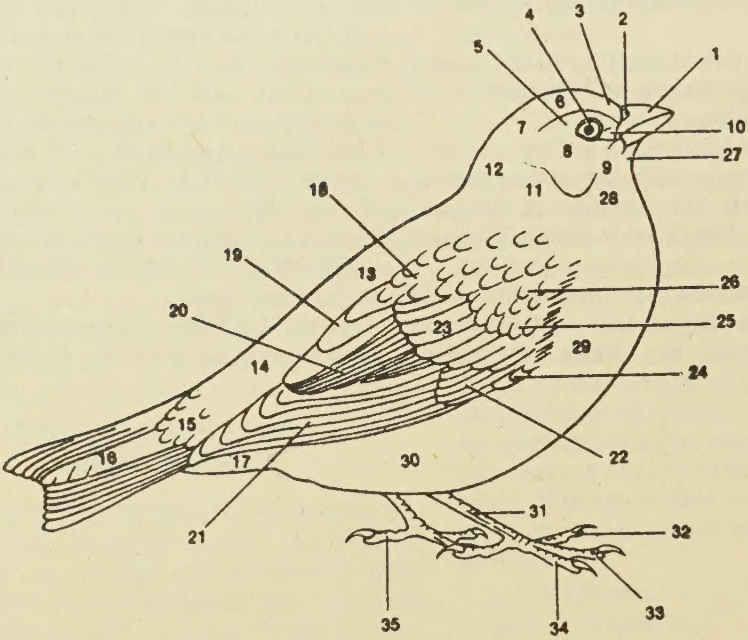
CONTINENTAL INDIA. Upper India south of the Himalayas to northern Madhya Pradesh– chiefly the Ingo-Gangetic Plain.

PENINSULAR INDIA. Roughly south of lat. 20°N (Tapti river).

BAY ISLANDS = The Andaman and Nicobar groups lying in the Bay of Bengal.

Terms used in the description of a bird's plumage and parts

Topography of a sparrow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1 Culmen
2 Nostril
3 Forehead
4 Iris
5 Supercilium
6 Crown
7 Nape
8 Ear-coverts
9 Malar region (malar stripe, moustache)
10 Lores
11 Side of neck
12 Hindneck
13 Back
14 Rump
15 Upper tail-coverts
16 Tail (rectrices)
17 Under tail-coverts
18 Scapulars
19 Tertials
20 Secondaries } (remiges)
21 Primaries } (remiges)
22 Primary coverts
23 Greater coverts
24 Bastard wing (alula)
25 Median coverts
26 Lesser coverts
27 Chin
28 Throat
29 Breast
30 Belly (abdomen)
31 Tarsus
32 Inner toe
33 Middle toe
34 Outer toe
35 Hind toe (hallux)

Systematic Index of Families, and Species in each

Family GAVIIDAE: Divers, Loons

Aquatic birds superficially resembling grebes but not very closely related to them. Toes fully webbed, not lobed or scalloped. Plumage dense, compact and harsh. Tarsi reticulate, laterally compressed. Legs short and set far back, almost at end. Wings short, narrow and tapering, set well back. Seen singly or in pairs. Frequent lakes, ponds and slow-flowing rivers in summer; essentially marine in winter. Skilled divers and swimmers. Take wing reluctantly and with some difficulty, but once airborne, their flight is powerful and swift. Sexes alike (winter); dimorphic (summer). Breeding: Extralimital.

	Plate
1. BLACKTHROATED DIVER *Gavia arctica*	1
2. REDTHROATED DIVER *Gavia stellata*	1

Family PODICIPEDIDAE: Grebes

Aquatic birds with soft rudimentary tail, very small wings, and compressed sharply pointed bill. Legs placed far back, especially adapted for diving and swimming. Tarsi scutellated in front, laterally compressed. Front toes with broad lateral vane-like lobes. Hind toe small, raised, vertically lobed. Nails broad and flattened. Plumage dense and silky. Loath to fly, rise with effort, but once airborne can fly strongly, often long distances. Said to have a habit of eating own feathers and feeding them to the young, probably to aid digestion. Sexes seasonally dimorphic. Nest, a mass of water weeds with a central depression or floating mound of grass and rubbish, loosely anchored to reeds or the substrate. Incubation by both sexes. Downy young boldly stripped blackish and white.

	Plate
3. GREAT CRESTED GREBE *Podiceps cristatus*	1
4. BLACKNECKED GREBE *Podiceps nigricollis*	1
4a. REDNECKED GREBE *Podiceps griseigena*	1
5. LITTLE GREBE *Podiceps ruficollis*	1

Family PROCELLARIIDAE: Petrels and Shearwaters

Sea birds of varying sizes and colouration, from myna to goose and of white, grey, brown, black plumage, or combinations of these. Bill short and stout to longish and slender, covered with horny plates, hooked at tip. Nostrils tubular. Wings narrow, long and pointed, with first primary longest and secondaries short. Tarsus short to medium, slender, laterally compressed, reticulated. Feet webbed, with strong hindclaw. Tail short, rounded. Sexes alike. Nest, a sand burrow excavated beneath scrub roots, near the shore. Incubation presumably by both sexes.

	Plate
6. CAPE PETREL *Daption capensis*	2
8. PINKFOOTED SHEARWATER *Procellaria carneipes*	2
9. WEDGETAILED SHEARWATER *Procellaria pacifica*	2
11. AUDUBON'S SHEARWATER *Procellaria lherminieri*	2
13a. JOUANIN'S GADFLY PETREL *Bulweria fallax*	2
13b. BULWER'S GADFLY PETREL *Bulweria bulwerii*	2
EL. STREAKED SHEARWATER *Calonestris leucomelas*	2
EL. SHORT-TAILED SHEARWATER *Procellaria tenuirostris*	2

Family HYDROBATIDAE: Storm Petrels

The smallest sea birds, from about sparrow to myna in size, of blackish or greyish plumage, mostly with a white rump. Wings long; tail medium to long; neck short. Bill slender, of medium length, grooved, hooked at tip. Nostrils tubular with a single orifice. Legs slender, medium to long; feet webbed, mostly black. Webs black or particoloured. Feed by 'walking' or 'hopping' on the water with wings fluttering and held slightly above line of back, long legs dangling, feet paddling, head bent low and bill touching the surface. Sexes alike. Nest in crevices in cliffs.

	Plate
14. WILSON'S STORM PETREL *Oceanites oceanicus*	2
15. DUSKYVENTED STORM PETREL *Fregetta tropica*	2
16. LEACH'S or FORKTAILED STORM PETREL *Oceanodroma leucorhoa*	2
EL. WHITEFACED STORM PETREL *Pelagodroma marina*	2
EL. MATSUDAIRA'S STORM PETREL *Oceanodroma matsudairae*	2

Family PHAETHONTIDAE: Tropic-birds

Tropical sea birds superficially resembling terns but morphologically closer to cormorants and frigate birds. Plumage chiefly white and black. Head large; neck short; bill yellow or orange-red, longish, stout, decurved and pointed. Wings long and pointed. Tail wedge-shaped with the middle pair of feathers in adults narrow, ribbon-like and much elongated. Legs short; feet webbed. Sexes alike. Nest, under shelter of a ledge of rock or in a crevice. A single egg is laid, curiously like that of raptors. Young hatch covered with down.

	Plate
17. REDBILLED (or SHORT-TAILED) TROPIC-BIRD *Phaethon aethereus*	5
18. REDTAILED TROPIC-BIRD *Phaethon rubricauda*	5
19. LONGTAILED TROPIC-BIRD *Phaethon lepturus*	5

Family PELECANIDAE: Pelicans

Large, gregarious, squat and clumsy fish-eating birds with short sturdy legs and large webbed feet. Tarsus compressed and reticulate in front. Wings large and broad; tail short, square and soft. Characteritic of the Family is the long heavy bill with the upper mandible flattened and hook-tipped and the lower consisting of two narrow flexible arches underhung throughout its length by a capacious gular pouch of naked skin which functions as a drag net for scooping up fish while swimming. Flight is strong and over long distances, though the initial take-off requires some effort. They fly with the neck bent back in a flat S, head drawn in between the shoulders. Pelicans fly either in the characteristic V-shaped echelons of geese, or in long straggly ribbons with a wide front. Often seen soaring on thermals. Sexes alike. Nesting in colonies. Nest of sticks in trees, or on reeds and grass or mud on the ground. Eggs 2-4. Chicks naked when newly hatched.

	Plate
20. ROSY or WHITE PELICAN *Pelecanus onocrotalus*	3
21. SPOTTEDBILLED PELICAN *Pelecanus philippensis*	3
22. DALMATIAN PELICAN *Pelecanus philippensis crispus*	3

Family SULIDAE: Boobies

Sea birds, typically white with variable amount of black in wings. Body stout, neck of moderate length, wings long and pointed, tail rather long and wedge-shaped. Bill stout, conical, pointed, slightly downcurved at tip, but not hooked. Bill, and bare facial and gular skin, brightly coloured. Legs short and stout, feet large and fully webbed. They have a characteristic habit of plunging headlong into the water from a height of 8 to 17 metres in the air for fish, and are capable of very deep dives in underwater pursuit of fish. Breed on oceanic islands, on the ground or in stick nest in trees.

	Plate
23. MASKED BOOBY *Sula dactylatra*	5
24. REDFOOTED BOOBY *Sula sula*	5
25. BROWN BOOBY *Sula leucogaster*	5

Family PHALACROCORACIDAE: Cormorants and Darter

Gregarious, fish-eating, colonial-nesting water birds. All Indian species characterized by black plumage. Bill laterally compressed, rather long, slender and pointed; hooked at tip in cormorants, stiletto-like in darters. Neck and body long, spindle-shaped; wings of moderate length. Tail long and stiff. Legs short; feet large and webbed; claws much curved. Plumage not very dense or resistant to water; becomes soaked by prolonged immersion and requires constant drying out. The birds rise off water with some difficulty, but the flight is powerful and sustained, with the neck stretched out in front. Cormorants fly in goose-like V-shaped echelons or wavy diagonal lines. Sexes alike. Nests, skimpy to fairly substantial stick platforms lined with water weeds in trees, rarely on rocks. Eggs 2-6. Incubation by both sexes. Young nidicolous, naked at hatching, down-covered later, and extraordinarily ugly.

	Plate
26. CORMORANT *Phalacrocorax carbo*	4
27. INDIAN SHAG *Phalacrocorax fuscicollis*	4
28. LITTLE CORMORANT *Phalacrocorax niger*	4
28a. PYGMY CORMORANT *Phalacrocorax pygmaeus*	4
29. DARTER *Anhinga rufa*	4

Family FREGATIDAE: Frigate Birds or Man-of-war Hawks

Large, gregarious, dark coloured or black-and-white oceanic birds with long, pointed, streamlined wings, deeply forked tails, and flight resembling that of raptors. Bill long and strongly hooked, rounded in cross-section, the culmen convex. Throat bare; bright coloured gular pouch occasionally inflated to ridiculous proportions by courting male, even in flight. Tarsus very short, stout, feathered. Feet small and webbed at the base; claws long, strong, much curved; middle claw pectinate. Usually feed by pirating food obtained by other birds. Frigate birds are magnificient fliers and capable of soaring and sailing for hours, spending almost all day on the wing. Nest of sticks built on trees and bushes and on rocks. Eggs 1 or 2. Incubation by both sexes. Chick blind and naked at hatching; covered with white down later.

	Plate
31. LESSER FRIGATE BIRD *Fregata minor*	3
32. LEAST FRIGATE BIRD *Fregata ariel*	3

Family ARDEIDAE: Herons, Egrets, Bitterns

Long-legged, lanky wading birds, with long slender flexible necks which are retracted into a flat S during flight. Bill long, straight, sharp-pointed and dagger-like. Tarsi very long; toes long and slender, the middle and outer toes united by a small web at their base; claw of middle toe pectinate. Most species have curious powder-down patches on each side of rump and breast providing a sort of dry shampoo for degreasing soiled feathers. Plumage soft and loose-textured, usually white, grey, purple or brown. In many species filamentous ornamental plumes acquired during the breeding season, for the trade in which the birds were greatly persecuted and in some places almost exterminated. Sexes alike or nearly so. Breeding, colonial, usually in mixed heronries. Nest, shallow stick platform on trees. Eggs 3-6. Young nidicolous.

		Plate
33.	GREAT WHITEBELLIED HERON *Ardea insignis*	6
34.	GIANT HERON *Ardea goliath*	6
36.	GREY HERON *Ardea cinerea*	6
37.	PURPLE HERON *Ardea purpurea*	6
38.	LITTLE GREEN HERON *Ardeola striatus*	6
42.	POND HERON or PADDYBIRD *Ardeola grayii*	4, 6
43.	CHINESE POND HERON *Ardeola bacchus*	6
44.	CATTLE EGRET *Bubulcus ibis*	7
46.	LARGE EGRET *Ardea alba*	7
47.	SMALLER EGRET *Egretta intermedia*	7
49.	LITTLE EGRET *Egretta garzetta*	4. 7
50.	INDIAN REEF HERON *Egretta gularis*	7
52.	NIGHT HERON *Nycticorax nycticorax*	4, 6
53.	MALAY or TIGER BITTERN *Gorsachius melanolophus*	4, 6
55.	LITTLE BITTERN *Ixobrychus minutus*	6
56.	CHESTNUT BITTERN *Ixobrychus cinnamomeus*	6
57.	YELLOW BITTERN *Ixobrychus sinensis*	6
58 .	BLACK BITTERN *Ixobrychus flavicollis*	6
59.	BITTERN *Botaurus stellaris*	4, 6
EL.	SQUACCO HERON *Ardeola ralloides*	6

Family CICONIIDAE: Storks

Large, long-legged, diurnal birds chiefly terrestrial and marsh-haunting. Colour pattern mainly white and black with a metallic sheen. Bill long, massive, pointed straight or nearly so, and ungrooved. Wings long and broad. Tail short; under tail-coverts lax and greatly developed in some species. Legs very long, tibiae partly naked; toes of moderate length, webbed at base, all four at same level (*contra* cranes which have the hind toe raised above the ground); claws blunt. Lacking voice muscles therefore vocally silent. Most species produce low grunting and hissing noises, and a loud castanet-like clattering or snapping of the mandibles. Storks are strong fliers, flying with neck and legs fully outstretched. Nest, large stick platforms in trees, or on cliffs and buildings. Eggs 3-6. Incubation and nest-feeding by both sexes. Chicks nidicolous; naked at first, downy later. Food regurgitated by parent into nest, whence guzzled by nestlings.

	Plate
60. PAINTED STORK *Mycteria leucocephala*	8
61. OPENBILL STORK *Anastomus oscitans*	8
62. WHITENECKED STORK *Ciconia episcopus*	8
63. WHITE STORK *Ciconia ciconia*	8
65. BLACK STORK *Ciconia nigra*	8
66. BLACKNECKED STORK *Ephippiorhynchus asiaticus*	8
67. ADJUTANT *Leptoptilos dubius*	8
68. LESSER ADJUTANT *Leptoptilos javanicus*	8

Family THRESKIORNITHIDAE: Ibises, Spoonbill

Comparatively long and bare-legged gregarious waterside or marsh birds related to and resembling storks, herons, and egrets, with whom they normally associate. Plumage chiefly white or black, or chestnut with metallic gloss. Bill long, slender, grooved and decurved (ibises), or extremely flattened and spatulate at tip (spoonbill). Face and throat, or whole head and neck bare in some species. Neck slender, longish, outstretched in flight. Wings long; tail short. Legs and toes moderately long; tibiae partly bare; toes webbed at base. Sexes nearly alike. Fly in V-formation or in wavy diagonal ribbons. Perch and roost on trees. Nest, a platform of sticks on trees. Eggs 2-4, rarely 5. Incubation by both sexes.

	Plate
69. WHITE IBIS *Threskiornis aethiopica*	8
70. BLACK IBIS *Pseudibis papillosa*	8
71. GLOSSY IBIS *Plegadis falcinellus*	8
72. SPOONBILL *Platalea leucorodia*	8

Family PHOENICOPTERIDAE: Flamingos

Large, excessively long-legged marsh birds with very long slender necks and peculiar thick lamellate bills sharply downcurved or ‘broken’ in the middle. Plumage largely pinkish white and crimson, with black remiges or wing-quills. Tibiae bare; toes short and webbed. Highly gregarious, often in vast congregations numbering over many hundred thousand. Feed in shallow, usually brackish, water with head immersed. Sometimes swimming and ‘up-ending’ in deeper water. The partly open bill is inverted so that the upper mandible forms a scoop with the culmen skimming or scraping the bottom ooze. The fleshy tongue works back and forth like a piston sucking in the water and mud, from which minute organisms are strained out by the lamellae along the edges of the bill. Flight, with fairly rapid wing-strokes, neck fully extended in front and legs trailing well behind, in diagonal wavy ribbons, single file, or in V-formation. Breeding in colonies, with hundreds of nests close to one another in a compact, expansive ‘city’ covering several acres. Nest, a truncated conical mound with shallow pan-like depression at top, from a few centimetres to half a metre high, of sun-baked mud scraped from the vicinity when in semi-liquid condition, and daubed on; sometimes merely a raised bed of mud pellets. Eggs normally 1, occasionally 2. Incubation by both sexes. Newly hatched, and small chicks, fed by parent on drops of a clear liquid of unkown origin and composition from its bill tip.

	Plate
73. FLAMINGO *Phoenicopterus roseus*	3
74. LESSER FLAMINGO *Phoeniconaias minor*	3

Family ANATIDAE: Ducks, Geese, Swans

Large conspicuous wetland birds, better known generally than perhaps any other group, and hunted universally. Considerable diversity in size and coloration — from pigeon to vulture, and from wholly white to combinations of grey, brown, black and green with metallic reflections. Bill typically broad, flat, rounded at tip, and with a comb-like fringe or lamellae for straining out food particles from water, in which they chiefly feed. Wings mostly rather narrow and pointed, adapted for swift and long-ranging flight. Tail short. Legs short; feet webbed. Most species are migratory. Nest on the ground, or in holes or hollows in tree-trunks, etc. Eggs 6-16. Young nidifugous, down covered.

	Plate
75. SIBERIAN REDBREASTED GOOSE *Branta ruficollis*	12
76. BEAN GOOSE *Anser fabalis*	12
79.WHITEFRONTED GOOSE *Anser albifrons*	12
80. LESSER WHITEFRONTED GOOSE *Anser erythropus*	12
81. GREYLAG GOOSE *Anser anser*	12
82. BARHEADED GOOSE *Anser indicus*	12
84. BEWICK'S SWAN *Cygnus cygnus bewickii*	3
86. WHOOPER SWAN *Cygnus cygnus*	3
87. MUTE SWAN *Cygnus olor*	3
88. LESSER WHISTLING TEAL or TREE DUCK *Dendrocygna javanica*	11, 13
89. LARGE WHISTLING TEAL *Dendrocygna bicolor*	11, 13
90. RUDDY SHELDUCK *Tadorna ferruginea*	11, 13
91. COMMON SHELDUCK *Tadorna tadorna*	11. 13
92. MARBLED TEAL *Marmaronetta angustirostris*	9, 10
93. PINTAIL *Anas acuta*	9, 10
94. COMMON TEAL *Anas crecca*	9, 10
95. BAIKAL TEAL *Anas formosa*	9, 10
96. GREY TEAL *Anas gibberifrons*	9, 10
97. SPOTBILLED DUCK *Anas poecilorhyncha*	9, 10
100. MALLARD *Anas platyrhynchos*	9, 10
101. GADWALL *Anas strepera*	9, 10
102. FALCATED TEAL *Anas falcata*	9, 10

	Plate
103. WIGEON *Anas penelope*	9, 10
104. GARGANEY *Anas querquedula*	9, 10
105. SHOVELLER *Anas clypeata*	9, 10
106. PINKHEADED DUCK *Rhodonessa caryophyllacea*	11
107. REDCRESTED POCHARD *Netta rufina*	11, 13
108. COMMON POCHARD *Aythya ferina*	11, 13
109. WHITE-EYED POCHARD or FERRUGINOUS DUCK *Aythya nyroca*	11, 13
110. BAER'S POCHARD *Aythya baeri*	11
111. TUFTED DUCK *Aythya fuligula*	11, 13
112. SCAUP DUCK *Aythya marila*	11, 13
114. COTTON TEAL or QUACKY-DUCK *Nettapus coromandelianus*	11, 13
115. COMB DUCK *Sarkidiornis melanotos*	12
116. WHITEWINGED WOOD DUCK *Cairina scutulata*	12
117. LONGTAIL or OLD SQUAW DUCK *Clangula hyemalis*	12
118. GOLDENEYE DUCK *Bucephala clangula*	12
119. SMEW *Mergus albellus*	11, 13
120, 121. GOOSANDER, COMMON MERGANSER *Mergus merganser*	12, 13
123. WHITEHEADED STIFFTAILED DUCK *Oxyura leucocephala*	12, 13

Family ACCIPITRIDAE: Hawks, Vultures, etc.

The Raptors or diurnal Birds of Prey are a major component of the order Falconiformes. Bill short with upper mandible longer than lower, curved and strongly hooked at the tip; basal portion covered with a cere which is usually bright coloured. Wings rounded. Feet strong; tarsi normally partly or fully feathered; hallux always present; claws hooked and powerful. Many species have confusingly different adult and juvenile plumages. Sexes nearly alike; female usually larger. Feed on the flesh of animals, self-killed or carrion. Breed in trees, or on crags. Nest made of sticks and often lined with leaves, grass, etc. Eggs 1-5. The rate of reproduction, especially in the larger species, is slow.

	Plate
124. BLACKWINGED KITE *Elanus caeruleus*	22, 23, 28
125. BLYTH'S BAZA *Aviceda jerdoni*	22, 21, 23
127. BLACKCRESTED BAZA *Aviceda leuphotes*	22, 23, 28
130. HONEY BUZZARD *Pernis ptilorhyncus*	24, 25
131. RED KITE *Milvus milvus*	14, 15, 17
132. BLACK KITE *Milvus migrans migrans*	14, 15
133. PARIAH KITE *Milvus migrans govinda*	14, 15, 17

	Plate
134. BLACKEARED or LARGE INDIAN KITE *Milvus migrans lineatus*	14, 15
135. BRAHMINY KITE *Haliastur indus*	14, 17, 25
136. GOSHAWK *Accipiter gentilis*	22, 23
139. SHIKRA *Accipiter badius*	22, 23
141. CAR NICOBAR SHIKRA *Accipiter badius butleri*	22, 23
143. HORSFIELD'S GOSHAWK *Accipiter soloensis*	22, 23
144. CRESTED GOSHAWK *Accipiter trivirgatus*	22, 23
147. SPARROW-HAWK *Accipiter nisus melaschistos*	22
148. SPARROW-HAWK *Accipiter nisus nisosimilis*	22, 23
151. BESRA SPARROW-HAWK *Accipiter virgatus besra*	22, 23
152. EASTERN BESRA SPARROW-HAWK *Accipiter virgatus gularis*	22, 23
153. LONGLEGGED BUZZARD *Buteo rufinus*	24, 25
154. UPLAND BUZZARD *Buteo hemilasius*	24,25
155. DESERT BUZZARD *Buteo buteo vulpinus*	24, 25
156. JAPANESE BUZZARD *Buteo buteo japonicus*	24, 25
157. WHITE-EYED BUZZARD-EAGLE *Butastur teesa*	25, 28, 29
158. HODGSON'S HAWK-EAGLE *Spizaetus nipalensis*	20, 21
160. CHANGEABLE HAWK-EAGLE *Spizaetus cirrhatus limnaeetus*	20, 21
161. CRESTED HAWK-EAGLE *Spizaetus cirrhatus cirrhatus*	20, 21, 28
163. BONELLI'S EAGLE *Hieraaetus fasciatus*	20, 21, 28
164. BOOTED HAWK-EAGLE *Hieraaetus pennatus*	20, 17, 25
165. RUFOUSBELLIED HAWK-EAGLE *Hieraaetus kienerii*	20, 25
166. GOLDEN EAGLE *Aquila chrysaetos*	26, 27, 28
167. IMPERIAL EAGLE *Aquila heliaca*	26, 27, 28
168. TAWNY EAGLE *Aquila rapax vindhiana*	26, 27, 28
169. EASTERN STEPPE EAGLE *Aquila rapax nipalensis*	26, 27, 28
170. GREATER SPOTTED EAGLE *Aquila clanga*	26, 27, 28
171. LESSER SPOTTED EAGLE *Aquila pomarina*	26, 27
172. BLACK EAGLE *Ictinaetus malayensis*	26, 27
172a. WHITETAILED EAGLE *Haliaeetus albicilla*	14, 15
173. WHITEBELLIED SEA EAGLE *Haliaeetus leucogaster*	14, 15
174. PALLAS'S FISHING EAGLE *Haliaeetus leucoryphus*	14, 15
175. GREYHEADED FISHING EAGLE *Ichthyophaga ichthyaetus*	14, 15
177. HIMALAYAN GREYHEADED FISHING EAGLE *Ichthyophaga nana*	14, 15
178. BLACK or KING VULTURE *Sarcogyps calvus*	16, 17, 18
179. CINEREOUS VULTURE *Aegypius monachus*	16, 17, 18

		Plate
180.	GRIFFON VULTURE *Gyps fulvus*	16, 17, 18
181.	HIMALAYAN GRIFFON *Gyps himalayensis*	16, 17, 18
182.	INDIAN LONGBILLED VULTURE *Gyps indicus*	16, 17, 18
185.	INDIAN WHITEBACKED VULTURE *Gyps bengalensis*	16, 17, 18
186.	EGYPTIAN or SCAVENGER VULTURE *Neophron percnopterus*	16, 17, 18
188.	BEARDED VULTURE or LAMMERGEIER *Gypaetus barbatus*	16, 17, 18
189.	HEN-HARRIER *Circus cyaneus*	19
190.	PALE HARRIER *Circus macrourus*	14, 19
191.	MONTAGU'S HARRIER *Circus pygargus*	19
192.	PIED HARRIER *Circus melanoleucos*	14, 19
193.	MARSH HARRIER *Circus aeruginosus*	14, 19
194.	EASTERN MARSH HARRIER (or STRIPED HARRIER) *Circus aeruginosus spilonotus*	19
195.	SHORT-TOED EAGLE *Circaetus gallicus*	20, 21
196.	CRESTED SERPENT EAGLE *Spilornis cheela*	20, 21, 28
200.	ANDAMAN PALE SERPENT EAGLE *Spilornis cheela davisoni*	20
201.	NICOBAR CRESTED SERPENT EAGLE *Spilornis cheela minimus*	20
202.	GREAT NICOBAR SERPENT EAGLE *Spilornis klossi*	20, 21
202a.	ANDAMAN DARK SERPENT EAGLE *Spilornis elgini*	20, 21
203.	OSPREY *Pandion haliaetus*	14, 21
EL.	ROUGHLEGGED BUZZARD *Buteo lagopus*	24, 25, 28

Family FALCONIDAE: Falcons

Diurnal birds of prey, with grey or brown and white or buff plumage; streaked or barred, especially below, showing strong contrast of black and white. Bill short, strongly hooked and toothed. Wings long and pointed. Legs strong; toes long; claws hooked and powerful. Extremely accomplished and swift fliers, generally killing their flying prey on the wing. Food chiefly birds, large insects, rodents and other small ground animals. Some species extensively used in the sport of Falconry. There is considerable change in the plumage from immature to adult which makes identification in the field and from descriptions difficult and unsatisfactory. Sexes alike, but female larger. Normally old stick nests of other birds in trees, or on cliffs are appropriated. Eggs, 2-5, usually 3 or 4.

		Plate
204.	REDBREASTED FALCONET *Microhierax caerulescens*	29, 30
205.	WHITELEGGED FALCONET *Microhierax melanoleucos*	29, 30

		Plate
206.	SAKER or CHERRUG FALCON *Falco biarmicus cherrug*	29, 30
207.	SHANGHAR FALCON *Falco biarmicus milvipes*	29
209.	PEREGRINE FALCON *Falco peregrinus japonensis*	29, 30
211.	SHAHEEN FALCON *Falco peregrinus peregrinator*	29, 30
212.	HOBBY *Falco subbuteo*	29, 30
215.	ORIENTAL HOBBY *Falco severus*	29, 30
216.	SOOTY FALCON *Falco concolor*	29, 30
217.	MERLIN *Falco columbarius*	29, 30
219.	REDHEADED MERLIN *Falco chicquera*	29, 30
220.	REDLEGGED FALCON *Falco vespertinus*	29, 30
221.	LESSER KESTREL *Falco naumanni*	29, 30
222.	KESTREL *Falco tinnunculus*	29, 30
EL.	BARBARY FALCON *Falco pelegrinoides*	29

Family MEGAPODIIDAE: Megapodes

Birds closely related to the pheasants, junglefowl, etc. Bill moderate. Legs and feet very large and powerful; tarsus in front broadly scutellated; claws long and straight; hindclaw longest. Wings and tail short and rounded. Sexes alike. The Family is remarkable for the reptile-like nesting habits, laying their eggs in holes in the ground or in scraped-together mounds of sand and humus, leaving them to hatch by the heat of the sun and/or decomposition of the vegetable matter. Young born with full juvenal plumage and able to fly and fend for themselves. Chiefly confined to the Australasian Region; represented within our limits by a single species.

		Plate
225.	MEGAPODE *Megapodius freycinet*	32

Family PHASIANIDAE: Pheasants, Patridges, Quails, etc.

Comprises the 'Game Birds' which form a valuable food resource for man. Terrestrial, but may roost on trees. Bill thick and short with the upper mandible overhanging the lower. Legs stout and unfeathered, usually armed with one or more pointed spurs in male; hallux always present; claws short, blunt and very strong for scratching the ground for food. Wings short and rounded. Flight may be swift and strong, but not for long distances. Normally feed on grain, seeds and tender shoots; also fruits, insects, etc. The majority lay their eggs (4-8, sometimes more) on the ground in open scrapes with no or scanty lining. Young nidifugous and downy.

		Plate
227.	SNOW PARTRIDGE *Lerwa lerwa*	32
228.	SEESEE PARTRIDGE *Ammoperdix griseogularis*	32

		Plate
229.	TIBETAN SNOWCOCK *Tetraogallus tibetanus*	34
232.	HIMALAYAN SNOWCOCK *Tetraogallus himalayensis*	34
233.	PHEASANT-GROUSE *Tetraophasis szechenyii*	34
236.	CHUKAR PARTRIDGE *Alectoris chukar*	32
338.	BLACK PARTRIDGE *Francolinus francolinus*	31
241.	PAINTED PARTRIDGE *Francolinus pictus*	31
243.	CHINESE FRANCOLIN *Francolinus pintadeanus*	31
246.	GREY PARTRIDGE *Francolinus pondicerianus*	31
247.	SWAMP PARTRIDGE or KYAH *Francolinus gularis*	31
249.	TIBETAN PARTRIDGE *Perdix hodgsoniae*	32
250.	GREY QUAIL *Coturnix coturnix*	32
252.	BLACKBREASTED or RAIN QUAIL *Coturnix coromandelica*	32
253.	BLUEBREASTED QUAIL *Coturnix chinensis*	32
255.	JUNGLE BUSH QUAIL *Perdicula asiatica*	32
261.	ROCK BUSH QUAIL *Perdicula argoondah*	32
263.	PAINTED BUSH QUAIL *Perdicula erythrorhyncha*	32
265.	MANIPUR BUSH QUAIL *Perdicula manipurensis*	32
267.	COMMON HILL PARTRIDGE *Arborophila torqueola*	31
270.	RUFOUSTHROATED HILL PARTRIDGE *Arborophila rufogularis*	31
271.	Ssp. *intermedia* of 270	31
272.	WHITECHEEKED HILL PARTRIDGE *Arborophila atroguaris*	31
273.	REDBREASTED HILL PARTRIDGE *Arborophila mandellii*	31
274.	BAMBOO PARTRIDGE *Bambusicola fytchii*	32
275.	RED SPURFOWL *Galloperdix spadicea*	31
278.	PAINTED SPURFOWL *Galloperdix lunulata*	31
279.	CEYLON SPURFOWL *Galloperdix bicalcarata*	31
280.	MOUNTAIN QUAIL *Ophrysia superciliosa*	32
282.	BLOOD PHEASANT *Ithaginis cruentus*	35
285.	WESTERN TRAGOPAN *Tragopan melanocephalus*	34
286.	CRIMSON or SATYR TRAGOPAN *Tragopan satyra*	34
288.	BLYTH'S or GREYBELLIED TRAGOPAN *Tragopan blythii*	34
289.	TEMMINCK'S TRAGOPAN *Tragopan temminckii*	34
290.	IMPEYAN or MONAL PHEASANT *Lophophorus impejanus*	34
291.	SCLATER'S MONAL *Lophophorus sclateri*	34
292.	EARED PHEASANT *Crossoptilon crossoptilon*	34

	Plate
294. KALEEJ PHEASANT *Lophura leucomelana*	35, 105
295. Ssp. *melanota* of 294	105
296. Ssp. *lathami* of 294	105
297. Ssp. *williamsi* of 294	105
298. Ssp. *moffitti* of 294	105
299. RED JUNGLEFOWL *Gallus gallus*	35
301. GREY or SONNERAT'S JUNGLEFOWL *Gallus sonneratii*	35
302. CEYLON JUNGLEFOWL *Gallus lafayettii*	35
304. KOKLAS PHEASANT *Pucrasia macrolopha*	35
307. CHIR PHEASANT *Catreus wallichii*	35
308. MRS HUME'S BARREDBACK PHEASANT *Syrmaticus humiae*	35
310. PEACOCK-PHEASANT *Polyplectron bicalcaratum*	35
311. COMMON PEAFOWL *Pavo cristatus*	33
312. BURMESE PEAFOWL *Pavo muticus*	33
EL. COMMON PHEASANT *Phasianus colchicus*	35

Family TURNICIDAE: Bustard-Quails

Small terrestrial birds superficially very like the true quails. But the hallux (hind toe) is absent making the feet three-toed as in bustards. Poor fliers. Females larger than males, more showily coloured, polyandrous, and with a more active role in courtship. Nest, a scrape or depression in the ground sometimes lined with grass. Eggs, usually 4. Incubation, and rearing of the chicks done entirely by the male. Young down-covered and precocial.

	Plate
313. LITTLE BUSTARD-QUAIL *Turnix sylvatica*	32
314. YELLOWLEGGED BUTTON QUAIL *Turnix tanki*	32
318. COMMON BUSTARD-QUAIL *Turnix suscitator*	32
319. Ssp. *leggei* of 318	32

Family GRUIDAE: Cranes

Large, longlegged, terrestrial birds superficially resembling storks. Bill pointed and comparatively short. Tibiae partly bare; toes short, strong, unwebbed; hind toe raised above level of the other three (*contra* Storks). Wings large and broad with the inner secondaries elongated, curled and drooping (used in display) under which the short tail is hidden. Flight powerful, in V-formation or in line. Sexes nearly alike. Cranes pair for life; they have exceptionally powerful, resonant, bugle-like calls, and a spectacular ceremonial 'dance' which consists of curtseying, prancing, capering and wildly leaping at, around, and away from each other, accompanied by noisy duetting. Food, vegetable matter, grain, insects, small animals, etc. Nest, a mass of vegetation on the ground or in shallow water. Eggs, usually 2.

	Plate
320. COMMON CRANE *Grus grus*	7
321. BLACKNECKED CRANE *Grus nigricollis*	7
322. HOODED CRANE *Grus monacha*	7
323. SARUS CRANE *Grus antigone*	7
325. SIBERIAN CRANE *Grus leucogeranus*	7
326. DEMOISELLE CRANE *Anthropoides virgo*	7

Family RALLIDAE: Rails, Coots

Small to medium-sized marsh or water birds, with some terrestrial forms. Plumage black or in soft shades of grey, brown, blue or green. Body laterally compressd. Bill strong; stout and short or curved and long. Legs and toes long; tibiae partly bare. Wings short and rounded. Generally poor fliers, with some island forms nearly flightless; however, some species are known to make long migratory flights. Sexes nearly alike. Feed on all types of animal and vegetable matter. Nest, on the ground, in bushes, or floating on water. Eggs, 2-15. Incubation by both sexes.

	Plate
327. WATER RAIL *Rallus aquaticus*	36
329. BLUEBREASTED BANDED RAIL *Rallus striatus*	36
331. REDLEGGED BANDED CRAKE *Rallina fasciata*	36
332. BANDED CRAKE *Rallina eurizonoides*	36
333. ANDAMAN BANDED CRAKE *Rallina canningi*	36
334. CORN CRAKE *Crex crex*	36
335. LITTLE CRAKE *Porzana parva*	36
337. BAILLON'S CRAKE *Porzana pusilla*	36
338. SPOTTED CRAKE *Porzana prozana*	36
339. RUDDY CRAKE *Prozana fusca*	36
341. ELWES'S CRAKE *Amaurornis bicolor*	36
342. BROWN CRAKE *Amaurornis akool*	36
343. WHITEBREASTED WATERHEN *Amaurornis phoenicurus*	36
346. WATER COCK *Gallicrex cinerea*	36
347. MOORHEN *Gallinula chloropus*	36
349. PURPLE MOORHEN *Porphyrio porphyrio*	36
350. COOT *Fulica atra*	36

Family HELIORNITHIDAE: Finfoots

Shy and secretive coot-like birds inhabiting dense swampy forest. Legs short and very strong; toes fringed with a lobed web. Wings rounded; tail broad and stiff. Flight strong, but low and not prolonged. Sexes nearly alike. Nest, a pad of twigs on trees over water. Eggs, 2-6. Incubation by both sexes. A single Indomalayan species.

	Plate
351. MASKED FINFOOT *Heliopais personata*	1

Family OTIDIDAE: Bustards

Large terrestrial birds inhabiting open grassy plains. Plumage buff, grey, white and black, generally cryptically patterned. Neck long. Bill short, stout and flattened. Legs strong and long; tibiae bare; foot cursorial, with three short and broad anterior toes. Wings broad. Flight strong, but not very frequent, the birds preferring to run or crouch when faced with danger. Sexes dimorphic. Food, both vegetable and animal matter. Nest, a scrape on bare ground, sometimes lined with grass, etc. or under a bush. Eggs 1-5. Incubation by female. Young, nidicolous and downy.

	Plate
352. GREAT BUSTARD *Otis tarda*	37
353. LITTLE BUSTARD *Otis tetrax*	37
354. GREAT INDIAN BUSTARD *Choriotis nigriceps*	37
355. HOUBARA *Chlamydotis undulata*	37
356. BENGAL FLORICAN *Eupodotis bengalensis*	37
357. LIKH or LESSER FLORICAN *Sypheotides indica*	37

Family JACANIDAE: Jacanas

Plumage bronze, black, brown, and brown-and-white in combinations. Bill slender, longish, straight and compressed. Legs long, tibiae bare; toes and claws enormously elongated enabling the birds to trip lightly over floating leaves and vegetation. Wings broad with sharp metacarpal spur. Tail short except in *Hydrophasianus,* where it is narrow, long and arched. Flight feeble, with the large feet dangling behind, seldom more than 2 or 3 metres above the surface. Food, chiefly vegetable matter; also insects, molluscs, etc. Sexes alike but female larger, and polyandrous. Nest, a flimsy pad or raft of grass or weed-stems on floating vegetation. Eggs, normally 4, often laid directly on floating leaves. Incubation by the male alone. Young, nidifugous and downy.

	Plate
358. PHEASANT-TAILED JACANA *Hydrophasianus chirurgus*	36
359. BRONZEWINGED JACANA *Metopidius indicus*	36

Family HAEMATOPODIDAE: Oystercatchers

Shore birds. Bill long, compressed, slightly truncated at end, and red in colour. Tarsus short, stout and reticulated; hallux absent; anterior toes short, stout and slightly webbed. Wings long and pointed. Flight strong. Sexes alike. Feeds largely on marine molluscs. Nest, usually a depression in the ground. Eggs, 3-4.

	Plate
360. OYSTERCATCHER *Haematòpus ostralegus*	39, 42

Family ROSTRATULIDAE: Painted Snipe

Largely crepuscular, brightly coloured terrestrial birds of reedy marshes. Plumage brown, grey, bronzy, black and white, cryptically patterned. Neck short. Bill long, slightly curved and swollen at tip. Toes long. Wings broad. Tail short. Flight slow; strong and swift runners; effective swimmers. Food, molluscs, crustaceans, insects, worms and weed-seeds, paddy grains, etc.; obtained by probing into squelchy mud or by scything movements of the bill in shallow water. Female larger and more brightly coloured than male, polyandrous, pugnacious and the dominant sex partner. Nest, a pad of grass or rushes with a slight depression in the centre, built on the ground or floating in the water. Eggs, normally 4. Incubation and raising of the chicks done by male.

	Plate
429. PAINTED SNIPE *Rostratula benghalensis*	38, 41

Family RECURVIROSTRIDAE: Stilts, Avocets

Waders or shore birds with white, black or brownish-grey plumage. Bill long, slender and straight or upcurved. Legs moderate to extremely long and slender; feet webbed; hallux vestigial or absent. Wings long and pointed; tail short and square. Food, molluscs, worms, crustaceans, insects, and seeds of sedges and marsh plants. Nest, a hollow depression in the ground, or a raised platform of pebbles, sometimes lined with vegetable scum off the water, grass, etc. Eggs, normally 4. Incubation by both sexes. Young, nidifugous and downy.

	Plate
430. BLACKWINGED STILT *Himantopus himantopus*	39, 42
432. AVOCET *Recurvirostra avosetta*	39, 42

Family IBIDORHYNCHIDAE: Ibisbill

Greyish-brown and white sandpiper-like wading birds. Bill red in colour, long, hard, slender and down-curved. Tarsus comparatively short, reticulated throughout. No hind toe; outer and middle toes connected by a deeply indented small web; web between middle and inner toes obsolete. Wings square. Sexes alike. Food, insects, molluscs, crustaceans, worms, etc. obtained by wading breast deep, ducking head and neck under water, and thrusting the long bill under the submerged pebbles. Nest, an unlined depression on a shingly islet amidst a glacier stream. Eggs 4. Incubation by both sexes.

	Plate
433. IBISBILL *Ibidorhyncha struthersii*	39, 42

Family DROMADIDAE: Crab Plovers

Largely crepuscular, maritime waders. Plumage mainly black and white. Bill strong and laterally compressed. Legs long and bare; middle claw pectinate. Wings long and pointed; tail short. Sexes alike. Food, chiefly crabs. Nest, hole in sandbanks on coral reefs; colonial. Egg, a singleton, inordinately large.

	Plate
434. CRAB PLOVER *Dromas ardeola*	39, 42

Family BURHINIDAE: Stone Curlews, Thick-knees

Terrestrial cursorial birds. Plumage brown, buff and white cryptically patterned, and with conspicuous head and wing markings. Head large and broad; very large 'goggle' eyes. Bill stout. Legs long; tarsus bare, tibiotarsal ('knee') joint thickened; feet partially webbed; toes three. Wings long and pointed. Sexes alike. Food, chiefly animal matter — insects, lizards, etc. Nest, a shallow, unlined scrape on the ground. Eggs, 1-3. Incubation by both sexes, chiefly by the female.

	Plate
436. STONE CURLEW *Burhinus oedicnemus*	39, 42
437. GREAT STONE PLOVER *Esacus magnirostris*	39, 42

Family GLAREOLIDAE: Coursers, Pratincoles

Brown, grey and white cursorial (running) birds boldly marked with black, white and chestnut. Coursers: Wings short and broad; tail short; bill longish and tapering; legs long and bare; three anterior toes. Most feeding movement on the ground by running swiftly in spurts, but also capable of fast, sustained flight. Pratincoles: Wings long, narrow and pointed; tail forked; bill and legs short; hallux present. Middle toe elongate with pectinate claw. Feed on the wing on flying insects. Sexes alike or nearly so. Nest, on the ground. Eggs, 2-3.

	Plate
439. CREAMCOLOURED COURSER *Cursorius cursor*	38, 41
440. INDIAN COURSER *Cursorius coromandelicus*	38, 41
441. JERDON'S or DOUBLEBANDED COURSER *Cursorius bitorquatus*	38
442. COLLARED PRACTINCOLE *Glareola pratincola pratincola*	44

	Plate
443. LARGE INDIAN PRATINCOLE *Glareola pratincola maldivarum*	38, 44
444. SMALL INDIAN PRATINCOLE *Glareola lactea*	38, 44

Family CHARADRIIDAE:
Plovers, Sandpipers, Snipe

Wading birds of small to medium size. Bill short and pigeon-like to long, slender and straight or downcurved. Legs short to long, with tibiae partly bare in many species. Wings long and pointed; tail short to medium. Flight strong, swift and well sustained. Sexes may be nearly alike, or female may be much smaller and/or duller coloured than male. Food, small invertebrates, molluscs, insects, worms and some vegetable matter obtained by probing in soft mud. Nest, on the ground. Eggs, 2-5.

	Plate
362. WHITETAILED LAPWING *Vanellus leucurus*	38, 39
363. SOCIABLE LAPWING *Vanellus gregarius*	38
364. LAPWING *Vanellus vanellus*	38, 39
365. GREYHEADED LAPWING *Vanellus cinereus*	38, 39
366. REDWATTLED LAPWING *Vanellus indicus*	38, 39
369. SPURWINGED LAPWING *Vanellus spinosus*	38
370. YELLOW-WATTLED LAPWING *Vanellus malabaricus*	38
371. GREY, or BLACKBELLIED PLOVER *Pluvialis squatarola*	38, 44
372. GOLDEN PLOVER *Pluvialis apricaria*	44
373. EASTERN GOLDEN PLOVER *Pluvialis dominica*	38, 44
374. LARGE SAND PLOVER *Charadrius leschenaultii*	40
376. CASPIAN SAND PLOVER *Charadrius asiaticus*	40
378. RINGED PLOVER *Charadrius hiaticula*	40, 41
380. LITTLE RINGED PLOVER *Charadrius dubius*	40, 41
381. KENTISH PLOVER *Charadrius alexandrinus*	40, 41
383. LONGBILLED RINGED PLOVER *Charadrius placidus*	40
384. LESSER SAND PLOVER *Charadrius mongolus*	40, 41
385. WHIMBREL *Numenius phaeopus*	39, 42
388. CURLEW *Numenius arquata*	39, 42
389. BLACKTAILED GODWIT *Limosa limosa*	39, 42
391. BARTAILED GODWIT *Limosa lapponica*	39, 42
392. SPOTTED or DUSKY REDSHANK *Tringa erythropus*	44
393. REDSHANK *Tringa totanus*	43, 44
395. MARSH SANDPIPER *Tringa stagnatilis*	43
396. GREENSHANK *Tringa nebularia*	43, 44

	Plate
397. GREEN SANDPIPER *Tringa ochropus*	43, 44
398. WOOD SANDPIPER *Tringa glareola*	43, 44
399. SPOTTED GREENSHANK *Tringa guttifer*	43
400. TEREK SANDPIPER *Tringa terek*	43, 44
401. COMMON SANDPIPER *Tringa hypoleucos*	43, 44
402. TURNSTONE *Arenaria interpres*	43, 44
403. SNIPEBILLED GODWIT or ASIAN DOWITCHER *Limnodromus semipalmatus*	39, 42
404. SOLITARY SNIPE *Gallinago solitaria*	106
405. WOOD SNIPE *Gallinago nemoricola*	106
406. PINTAIL SNIPE *Gallinago stenura*	41, 106
407. SWINHOE'S SNIPE *Gallinago megala*	106
408. GREAT SNIPE *Gallinago media*	106
409. FANTAIL SNIPE *Gallinago gallinago*	41, 43, 106
410. JACK SNIPE *Gallinago minima*	43, 106
411. WOODCOCK *Scolopax rusticola*	41, 43
412. KNOT *Calidris canuta*	40, 41
413. EASTERN KNOT *Calidris tenuirostris*	40, 41
414. SANDERLING *Calidris alba*	40, 41
416. LITTLE STINT *Calidris minuta*	40, 41
417. TEMMINCK'S STINT *Calidris temminckii*	40, 41
418. LONGTOED STINT *Calidris subminuta*	40
419. ASIAN PECTORAL SANDPIPER *Calidris acuminata*	40
420. DUNLIN *Calidris alpina*	40, 41
422. CURLEW-SANDPIPER *Calidris testacea*	40, 41
423. SPOONBILLED SANDPIPER *Eurynorhynchus pygmeus*	40
424. BROADBILLED SANDPIPER *Limicola falcinellus*	40
426. RUFF and REEVE *Philomachus pugnax*	43, 44
428. REDNECKED PHALAROPE *Phalaropus lobatus*	40, 41

Family STERCORARIIDAE: Skuas, Jaegers

Pelagic, gull-like birds, many with dark and light plumage phases. Body stout. Bill strong, rounded and strongly hooked, with a horny cere. Legs short; feet stout and fully webbed; claws small, but curved and sharp. Wings long and pointed; tail wedge-shaped. Flight powerful and swift. Sexes alike. Skuas are predatory on the eggs and chicks of terns, penguins, and other colonial nesting sea birds. They also attack and chase other birds, forcing them to either drop their lawful prize or disgorge their crop contents, which they then retrieve in mid-air. They are birds of the Arctic and Antarctic zones. Within our limits, the records are mainly of accidental waifs storm-tossed during heavy monsoon gales.

	Plate
445. ANTARCTIC SKUA *Catharacta skua antarctica*	45
446a. ANTARCTIC SKUA (MACCORMICK'S SKUA) *Catharacta skua maccormicki*	45
447. POMATORHINE SKUA or JAEGER *Stercorarius pomarinus*	45
448. PARASITIC or RICHARDSON'S SKUA or JAEGER *Stercorarius parasiticus*	45

Family LARIDAE: Gulls, Terns

Gulls: Gregarious, heavy-bodied aquatic birds. Plumage chiefly a combination of grey, white and black. Bill slender to heavy, sharply pointed or blunt and slightly hooked. Legs short; feet webbed; hallux small or vestigial. Wings long and pointed; tail square or forked. Sexes alike. Flight strong. Feed by catching fish, scavenging on various animal and vegetable matter, and by piracy like skuas. Roost and breed in colonies, often of great size. Nest, on the ground, cliffs, in trees, or floating. May be a bulky structure of grass, etc. or a skimpily lined or unlined scrape. Eggs, 2-4. Incubation by both sexes. Terns are more lightly built than gulls, with longer, narrower wings and a different style of flight. They rest and roost on rocks or mudbanks, and in spite of their webbed feet rarely settle on water. They capture living prey (fish, crabs etc.) by scooping it up from the surface in flight or diving vertically from the air and going under water momentarily. Nesting colonial, as in gulls.

	Plate
449. SOOTY GULL *Larus hemprichii*	45
450. HERRING GULL *Larus argentatus*	45
452. LESSER BLACKBACKED GULL *Larus fuscus*	45
453. GREAT BLACKHEADED GULL *Larus ichthyaetus*	45
454. BROWNHEADED GULL *Larus brunnicephalus*	45
455. BLACKHEADED GULL *Larus ridibundus*	45
456. SLENDERBILLED GULL *Larus genei*	45
457. LITTLE GULL *Larus minutus*	45
458. WHISKERED TERN *Chlidonias hybrida*	46
459. WHITEWINGED BLACK TERN *Chlidonias leucopterus*	46
459a. BLACK TERN *Chlidonias niger*	46
460. GULLBILLED TERN *Gelochelidon nilotica*	46
462. CASPIAN TERN *Hydroprogne caspia*	46
463. INDIAN RIVER TERN *Sterna aurantia*	46
464. COMMON TERN *Sterna hirundo*	46
466. ROSEATE or ROSY TERN *Sterna dougallii*	46
467. WHITECHEEKED TERN *Sterna repressa*	46
468. BLACKNAPED TERN *Sterna sumatrana*	46
470. BLACKBELLIED TERN *Sterna acuticauda*	46

	Plate
471. BROWNWINGED TERN *Sterna anaethetus*	46
474. SOOTY TERN *Sterna fuscata*	46
475. LITTLE TERN *Sterna albifrons*	46
478. LARGE CRESTED TERN *Sterna bergii*	46
479. INDIAN LESSER CRESTED TERN *Sterna bengalensis*	46
480. SANDWICH TERN *Sterna sandvicensis*	46
481. NODDY TERN *Anous stolidus*	46
483. INDIAN OCEAN WHITE TERN, FAIRY TERN *Gygis alba*	46
484. INDIAN SKIMMER *Rynchops albicollis*	45

Family PTEROCLIDIDAE: Sandgrouse

Terrestrial pigeon-like birds. Plumage chiefly sandy brown patterned with black spots and vermiculations, affording perfect camouflage to the birds in their native semi-desert environment. They have an exceptionally powerful flight, and in spite of their short legs are also good walkers and runners. Bill small but stout. Wings long and pointed; tail moderately long and pointed. Legs and toes short; claws short and thick. Sexes differ. Sandgrouse have a typical habit of flying in flocks to water regularly, a few hours after sunrise and during early dusk; this flight often covers long distances. Food, chiefly vegetarian — seeds and shoots of desert grasses and weeds. Nest, a shallow unlined scrape in the ground. Eggs, 2-3. Incubation by both sexes. Young precocial.

	Plate
485. TIBETAN SANDGROUSE *Syrrhaptes tibetanus*	47
485a. PALLAS'S SANDGROUSE *Syrrhaptes paradoxus*	47
486. LARGE PINTAIL SANDGROUSE *Pterocles alchata*	47
487. INDIAN SANDGROUSE *Pterocles exustus*	47
488. SPOTTED SANDGROUSE *Pterocles senegallus*	47
489. IMPERIAL SANDGROUSE *Pterocles orientalis*	47
490. CORONETTED SANDGROUSE *Pterocles coronatus*	47
491. CLOSEBARRED SANDGROUSE *Pterocles indicus arabicus*	47
492. PAINTED SANDGROUSE *Pterocles indicus indicus*	47

Family COLUMBIDAE: Pigeons, Doves

Arboreal or terrestrial birds. Plumage dense and soft. Body compact. Head small; neck short. Bill of medium length and slender to stout, with a naked cere. Legs short to fairly long. Flight swift and powerful. Sexes alike in most species. Food chiefly seeds, grain, drupes, etc. Drink water by immersing the bill and sucking continuously. Nest, a sketchy platform of a few sticks in trees, on ledges or in holes in cliffs etc. Eggs, normally 2. Incubation and care of young by both sexes. Initially the nestlings are fed on a secretion of the parent's crop known as 'pigeon's milk'. Voice, cooing or booming calls or mellow musical whistles. Many species migratory. The homing instinct of some domestic breeds extensively exploited for carrying messages prior to the advent of wireless telegraphy and even during the two recent World Wars.

		Plate
493.	PINTAILED GREEN PIGEON *Treron apicauda*	49
494.	WEDGETAILED GREEN PIGEON *Treron sphenura*	49
495.	THICKBILLED GREEN PIGEON *Treron curvirostra*	49
496.	POMPADOUR or GREYFRONTED GREEN PIGEON *Treron pompadora*	49
501.	ORANGEBREASTED GREEN PIGEON *Treron bicincta*	49
503.	YELLOWLEGGED GREEN PIGEON *Treron phoenicoptera*	49
506.	GREEN IMPERIAL PIGEON *Ducula aenea*	48
509.	PIED IMPERIAL PIGEON *Ducula bicolor*	48
510.	IMPERIAL PIGEON *Ducula badia*	48
513.	SNOW PIGEON *Columba leuconota*	48
515.	HILL PIGEON *Columba rupestris*	48
516.	BLUE ROCK PIGEON *Columba livia*	48
518.	EASTERN STOCK PIGEON *Columba eversmanni*	48
519.	WOOD PIGEON *Columba palumbus*	48
520.	SPECKLED WOOD PIGEON *Columba hodgsonii*	48
521.	NILGIRI WOOD PIGEON *Columba elphinstonii*	48
522.	CEYLON WOOD PIGEON *Columba torringtoni*	48
523.	ASHY WOOD PIGEON *Columba pulchricollis*	48
524.	PURPLE WOOD PIGEON *Columba punicea*	48
525.	ANDAMAN WOOD PIGEON *Columba palumboides*	48
526.	BARTAILED CUCKOO-DOVE *Macropygia unchall*	49
527.	ANDAMAN CUCKOO-DOVE *Macropygia rufipennis*	49
529.	TURTLE DOVE *Streptopelia turtur*	49
530.	RUFOUS TURTLE DOVE *Streptopelia orientalis*	49
534.	INDIAN RING DOVE *Streptopelia decaocto*	49
535.	RED TURTLE DOVE *Streptopelia tranquebarica*	49
537.	SPOTTED DOVE *Streptopelia chinensis*	49
541.	LITTLE BROWN or SENEGAL DOVE *Streptopelia senegalensis*	49
542.	EMERALD or BRONZEWINGED DOVE *Chalcophaps indica*	49
544b.	NICOBAR PIGEON *Caloenas nicobarica*	49
EL.	STOCK PIGEON *Columba oenas*	48

Family PSITTACIDAE: Parrots

Brightly coloured arboreal fruit- and grain-eating birds. All Indian species chiefly green. They include some of the most abundant and destructive bird pests of agriculture and horticulture in India. Plumage sparse. Bill short, stout, strongly hooked; upper mandible loosely articulated with the skull and capable of kinetic movement. Tongue thick and fleshy. Feet zygodactylous. Wings rounded. Flight swift. Sexes alike or differing slightly. Food, purely vegetarian — fruit, berries, nuts, grain, etc. Voice loud, high-pitched and harsh. Many species can be trained to imitate a few words of human speech in captivity. Nest, usually in holes in trees. Eggs 2-5.

	Plate
546. ALEXANDRINE PARAKEET *Psittacula eupatria*	50
550. ROSERINGED PARAKEET *Psittacula krameri*	50
551. REDBREASTED PARAKEET *Psittacula alexandri*	50
553. NICOBAR PARAKEET *Psittacula caniceps*	50
554. LORD DERBY'S PARAKEET *Psittacula derbyana*	50
555. REDCHEEKED PARAKEET *Psittacula longicauda*	50
558. BLOSSOMHEADED PARAKEET *Psittacula cyanocephala*	50
559. EASTERN BLOSSOMHEADED PARAKEET *Psittacula roseata*	50
562. SLATYHEADED PARAKEET *Psittacula himalayana*	50
563. EASTERN SLATYHEADED PARAKEET *Psittacula finschii*	50
564. BLUEWINGED PARAKEET *Psittacula columboides*	50
565. LAYARD'S PARAKEET *Psittacula calthropae*	50
566. INDIAN LORIKEET *Loriculus vernalis*	50
568. CEYLON LORIKEET *Loriculus beryllinus*	50

Family CUCULIDAE: Cuckoos

Arboreal or terrestrial. Bill curved, stout, and sometimes heavy. Legs short; feet zygodactyl. Wings medium to long; tail medium to extremely long, often graduated. Sexes usually alike. Food, insects, molluscs, lizards, snakes and other small vertebrates; also fruits. Voice, loud notes — mostly harsh and shrieking but some quite melodious — monotonously repeated. This family is well known for its habit of brood-parasitism, building no nests, but laying the eggs in the nests of other birds, and foisting the labour of incubating the eggs and rearing the young upon the dupes. Some species are non-parasitic, having normal habits as in other birds. Young nidicolous.

	Plate
569. REDWINGED CRESTED CUCKOO *Clamator coromandus*	52
571. PIED CRESTED CUCKOO *Clamator jacobinus*	52

	Plate
572. LARGE HAWK-CUCKOO *Cuculus sparverioides*	51
573. COMMON HAWK-CUCKOO or BRAINFEVER BIRD *Cuculus varius*	51
575. HODGSON'S HAWK-CUCKOO *Cuculus fugax*	51
576. INDIAN CUCKOO *Cuculus micropterus*	51
578. THE CUCKOO *Cuculus canorus*	51
581. SMALL CUCKOO *Cuculus poliocephalus*	51
582. INDIAN BANDED BAY CUCKOO *Cacomantis sonneratii*	51
584. INDIAN PLAINTIVE CUCKOO *Cacomantis passerinus*	51
585. RUFOUSBELLIED PLAINTIVE CUCKOO *Cacomantis merulinus*	51
586. EMERALD CUCKOO *Chalcites maculatus*	51
587. VIOLET CUCKOO *Chalcites xanthorhynchus*	51
588. DRONGO-CUCKOO *Surniculus lugubris*	69
590. KOEL *Eudynamys scolopacea*	71
593. LARGE GREENBILLED MALKOHA *Rhopodytes tristis*	52
595. SMALL GREENBILLED MALKOHA *Rhopodytes viridirostris*	52
598. SIRKEER CUCKOO *Taccocua leschenaultii*	52
599. REDFACED MALKOHA *Phaenicophaeus pyrrhocephalus*	52
600. CROW-PHEASANT or COUCAL *Centropus sinensis*	52
603. ANDAMAN CROW-PHEASANT *Centropus (sinensis) andamanensis*	52
604. CEYLON COUCAL *Centropus chlororhynchus*	52
605. LESSER COUCAL *Centropus toulou*	52

Family STRIGIDAE: Owls

Arboreal, chiefly nocturnal birds of prey. Plumage long and soft; grey, brown, chestnut, black or white, and barred, streaked or vermiculated. Head large; eyes very large, and forwardly directed. A facial disc and 'horns' present in many species. Bill short, strong and hooked. Flank feathers greatly elongated; tarsus and toes feathered; outer toe reversible; claws strongly hooked. Wings broad and rounded. Sexes generally alike, but female larger. Flight buoyant and, in most species, silent. Food, entirely animal, principally rodents; also other small creatures. Nest, in holes or hollows. Young nidicolous and downy. Care of young by both sexes.

	Plate
606. BARN OWL *Tyto alba*	54
608. GRASS OWL *Tyto capensis*	54
609. BAY OWL *Phodilus badius*	54

	Plate
612. SPOTTED SCOPS OWL *Otus spilocephalus*	54
614. STRIATED, or PALLID, SCOPS OWL *Otus brucei*	54
617. SCOPS OWL *Otus scops*	54
623. COLLARED SCOPS OWL *Otus bakkamoena*	54
627. EAGLE-OWL or GREAT HORNED OWL *Bubo bubo*	53
628. FOREST EAGLE-OWL *Bubo nipalensis*	53
630. DUSKY HORNED OWL *Bubo coromandus*	53
631. BROWN FISH OWL *Bubo zeylonensis*	53
633. TAWNY FISH OWL *Bubo flavipes*	53
635. COLLARED PIGMY OWLET *Glaucidium brodiei*	54
636. JUNGLE OWLET *Glaucidium radiatum*	54
638. Ssp. *castononotum* of 636	54
639. BARRED OWLET *Glaucidium cuculoides*	54
642. BROWN HAWK-OWL *Ninox scutulata*	54
645. Ssp. *obscura* of 642	54
648, 649. LITTLE OWL *Athene noctua*	54
652. SPOTTED OWLET *Athene brama*	54
653. FOREST SPOTTED OWLET *Athene blewitti*	54
654. HUME'S WOOD OWL *Strix butleri*	53
657. MOTTLED WOOD OWL *Strix ocellata*	53
659. BROWN WOOD OWL *Strix leptogrammica*	53
662. HIMALAYAN WOOD OWL *Strix aluco*	53
663. LONGEARED OWL *Asio otus*	53
664. SHORTEARED OWL *Asio flammeus*	53
665. TENGMALM'S or BOREAL OWL *Aegolius funereus*	54

Family PODARGIDAE: Frogmouths

Crepuscular and nocturnal birds with soft, silky plumage — cryptically patterned in brown, tawny, grey and black. Neck short and thick. Bill broad, flat and triangular, very wide at gape and hooked at tip; the base overhung by bristly feathers. Legs short; feet small and weak; middle toe elongated. Wings rounded. Sexes dimorphic. Spend the day perched across a bare branch, body tilted at an upward angle bill pointing to sky, simulating a broken stump. Food, insects. Nest, a small pad of leaves, twigs, etc. lined with down from the bird's underplumage; placed in the fork of, or on a horizontal branch. Eggs, 1-3. Incubation by both sexes.

	Plate
666. CEYLON FROGMOUTH *Batrachostomus moniliger*	55
667. HODGSON'S FROGMOUTH *Batrachostomus hodgsoni*	55

Family CAPRIMULGIDAE: Nightjars, Goatsuckers

Crepuscular or nocturnal soft plumaged birds, cryptically patterned in rufous, buff, grey, black and white. Head and eyes large; neck shortish. Bill weak and small; gape wide;middle toe long with a pectinate claw. Wings long and pointed. Sexes nearly alike. Food, insects, captured in flight. Eggs, 1-2, laid on the bare ground.

	Plate
669. GREAT EARED NIGHTJAR *Eurostopodus macrotis*	55
671. INDIAN JUNGLE NIGHTJAR *Caprimulgus indicus*	55
673. EUROPEAN NIGHTJAR *Caprimulgus europaeus*	55
673a. EGYPTIAN NIGHTJAR *Caprimulgus aegyptius*	55
674. SYKES'S NIGHTJAR *Caprimulgus mahrattensis*	55
675. LONGTAILED NIGHTJAR *Caprimulgus macrurus*	55
680. COMMON INDIAN NIGHTJAR *Caprimulgus asiaticus*	55
682. FRANKLIN'S, or ALLIED, NIGHTJAR *Caprimulgus affinis*	55

Family APODIDAE: Swifts

The most aerial of all birds. Body compact; neck short. Plumage chiefly brown or blackish, with patches of white or grey. Bill small, slightly decurved, with a very large gape. Legs short; feet small with hind toe completely reversible and needle-sharp curved claws, useless for walking or perching. Wings bow-shaped — long, narrow and pointed. Sexes alike. Swifts are capable of sustained high-speed flight, often spending all day on the wing; they rest by clinging to rough, vertical surfaces. Food, insects hawked in flight. Nest, of grass, tow, etc. glued together with saliva and attached to a vertical surface. Some species build their nests entirely of saliva; these nests are edible and of commercial value. Eggs, 1-6. Incubation by both sexes.

	Plate
683. HIMALAYAN SWIFTLET *Collocalia brevirostris*	56
685. INDIAN EDIBLE-NEST SWIFTLET *Collocalia unicolor*	56
687. WHITEBELLIED SWIFTLET *Collocalia esculenta*	56
688. WHITETHROATED SPINETAIL SWIFT *Chaetura caudacuta*	56
690. COCHINCHINA SPINETAIL SWIFT *Chaetura cochinchinensis*	56
691. LARGE BROWNTHROATED SPINETAIL SWIFT *Chaetura gigantea*	56
692. WHITERUMPED SPINETAIL *Chaetura sylvatica*	56
693. ALPINE SWIFT *Apus melba*	56

	Plate
696. THE SWIFT *Apus apus*	56
697. PALLID SWIFT *Apus pallidus*	56
698. DARKBACKED SWIFT *Apus acuticauda*	56
699. LARGE WHITERUMPED SWIFT *Apus pacificus*	56
703. HOUSE SWIFT *Apus affinis*	56
707. PALM SWIFT *Cypsiurus parvus*	56
709. CRESTED TREE SWIFT *Hemiprocne longipennis*	65

Family TROGONIDAE: Trogons

Brightly coloured arboreal birds with soft, dense plumage, and a thin delicate skin. Neck short. Eyes large; brightly coloured bare orbital rings. Bill short and usually brightly coloured. Legs and feet small and weak, the first and second toes turned back. Wings short and rounded; tail long and graduated. Sexes dimorphic. Usually solitary, may be in pairs or in small groups. Perch erect and motionless on branches for long periods, statue-like. Flight swift, but generally not over long distances. Food, insects and berries. Nest, in holes in trees. Eggs, 2-4. Incubation by both sexes. Young, altricial and nidicolous.

	Plate
712. MALABAR TROGON *Harpactes fasciatus*	57
715. REDHEADED TROGON *Harpactes erythrocephalus*	57
716. WARD'S TROGON *Harpactes wardi*	57

Family ALCEDINIDAE: Kingfishers

Usually of blue, green, purple, brown or black-and-white plumage. Body compact; neck short; bill massive, long, straight and pointed. Legs short; feet syndactyl. Wings short and rounded. Sexes generally alike. Flight direct and swift. Non-social birds, adapted for life chiefly at inland waters, though some species are largely maritime and others largely terrestrial. The 'aquatic' forms feed on fish obtained by diving headlong into the water; the others live also on large insects and small vertebrates. Nest, burrows in river banks or holes in trees. Eggs, 2-7. Incubation by both sexes.

	Plate
717. HIMALAYAN PIED KINGFISHER *Ceryle lugubris*	58
719. LESSER PIED KINGFISHER *Ceryle rudis*	58
721. BLYTH'S or GREAT BLUE KINGFISHER *Alcedo hercules*	58
722. COMMON KINGFISHER *Alcedo atthis*	58
725. BLUE-EARED KINGFISHER *Alcedo meninting*	58
727. THREETOED KINGFISHER *Ceyx erithacus*	58
727a. THREETOED KINGFISHER *Ceyx erithacus rufidorsus*	58

	Plate
729. BROWNWINGED KINGFISHER *Pelargopsis amauroptera*	58
730. STORKBILLED KINGFISHER *Pelargopsis capensis*	58
733. RUDDY KINGFISHER *Halcyon coromanda*	58
735. WHITEBREASTED KINGFISHER *Halcyon smyrnensis*	58
739. BLACKCAPPED KINGFISHER *Halcyon pileata*	58
740. WHITECOLLARED KINGFISHER *Halcyon chloris*	58

Family MEROPIDAE: Bee-eaters

Gregarious sleek-looking birds with soft and compact plumage. Most species largely green, and generally with a black stripe from base of bill through eye. Bill long, slender, laterally compressed and decurved. Legs small, feet and toes slender. Wings long and pointed; tail longish, with the central pair of rectrices usually elongated as pins. Sexes nearly alike. Food, insects, chiefly bees and wasps caught in flight. Nest, self-excavated holes in earth banks, or sloping tunnels in the ground. Eggs, 2-8. Incubation and nest-feeding by both sexes.

	Plate
744. CHESTNUTHEADED BEE-EATER *Merops leschenaulti*	57
746. EUROPEAN BEE EATER *Merops apiaster*	57
747. BLUECHEEKED BEE-EATER *Merops superciliosus*	57
748. BLUETAILED BEE-EATER *Merops philippinus*	57
750. GREEN BEE-EATER *Merops orientalis*	57
753. BLUEBEARDED BEE-EATER *Nyctyornis athertoni*	57

Family CORACIIDAE: Rollers

Crow-sized arboreal birds chiefly of striking brown and brilliant blue plumage. Head large; neck short. Bill wide, strong and slightly hooked. Legs short; feet strong; second and third toes basally united. Wings long; tail longish. Sexes nearly alike. Flight strong, often accompanied, especially during courtship display, by harsh cries and a series of bizarre aerobatics — nosediving, rolling, looping-the-loop, etc. Food, chiefly insects caught in air; also small crawling animals. Nest, unlined tree holes. Eggs, 2-4. Incubation by both sexes. Rollers are noisy birds, and often aggressive and quarrelsome.

	Plate
754. EUROPEAN ROLLER *Coracias garrulus*	57
755. INDIAN ROLLER *Coracias benghalensis*	57
759. BROADBILLED ROLLER *Eurystomus orientalis*	57

Family UPUPIDAE: Hoopoes

Pinkish cinnamon to chestnut coloured birds with black, white and buff zebra-like stripes on back and wings, and a long, conspicuous black-tipped fan-like crest. Bill long and slender. Tarsi short, toes long. Wings broad and rounded; tail square. Sexes nearly alike. Flight undulating. Food, largely insects probed out of the soil, using the bill as forceps. Song, a deep mellow *hoo-po* or *hoo-po-po* repeated at short intervals. Nest, holes in trees or walls; notoriously insanitary and evil-smelling from the bird's unremoved droppings and food remains. Eggs, 5-7. Incubation by female, who is fed by her mate throughout this period. Nestlings fed by both parents; when threatened, the nestlings squirt their foul-smelling liquid faeces at the intruder.

	Plate
763. HOOPOE *Upupa epops*	58

Family BUCEROTIDAE: Hornbills

Large, chiefly arboreal birds with wiry plumage, white, black, grey or brown in combinations. Bill enormous, brightly coloured, curved, and usually with a large casque on culmen. Bare brightly coloured skin around eyes; eyelashes bristly and prominent. Legs short; feet broad-soled and syndactyl. Wings broad; tail long. Food, fruit, insects, small animals, etc. Nest, holes in mature forest trees. The female walls herself into the nest, leaving a small aperture through which the male feeds her during the incubation period, and in many species till the young fledge out. The female is believed to undergo an accelerated wing moult during her incarceration. Eggs, 1-6.

	Plate
767. COMMON GREY HORNBILL *Tockus birostris*	59
768. MALABAR GREY HORNBILL *Tockus griseus*	59
770. WHITETHROATED BROWN HORNBILL *Ptilolaemus tickelli*	59
771. RUFOUSNECKED HORNBILL *Aceros nipalensis*	59
772. WREATHED HORNBILL *Rhyticeros undulatus*	59
773. NARCONDAM HORNBILL *Rhyticeros plicatus (narcondami)*	59
774. INDIAN PIED HORNBILL *Anthracoceros malabaricus*	59
775. MALABAR PIED HORNBILL *Anthracoceros coronatus*	59
776. GREAT PIED HORNBILL *Buceros bicornis*	59

Family CAPITONIDAE: Barbets

Small, stocky arboreal birds with large head. Plumage coarse and sparse, generally brightly coloured. Feather tufts present over the nostrils or well-developed rictal and chin bristles. Bill large, heavy, slightly curved and pointed.

Legs short and strong; feet large and zygodactyl. Wings rounded; flight weak. Sexes generally alike. Food, fruit and insects. Calls, loud and far carrying, monotonously repeated. Nest, self-excavated holes in tree trunks and branches. Eggs, 2-4. Incubation by both sexes.

	Plate
778. GREAT HILL BARBET *Megalaima virens*	60
782. LARGE GREEN BARBET *Megalaima zeylanica*	60
784. LINEATED BARBET *Megalaima lineata*	60
785. SMALL GREEN BARBET *Megalaima viridis*	60
786. YELLOWFRONTED BARBET *Megalaima flavifrons*	60
787. GOLDENTHROATED BARBET *Megalaima franklinii*	60
788. BLUETHROATED BARBET *Megalaima asiatica*	60
789. BLUE-EARED BARBET *Megalaima australis*	60
790. CRIMSONTHROATED BARBET *Megalaima rubricapilla malabarica*	60
791. CRIMSONTHROATED BARBET *Megalaima rubricapilla rubricapilla*	60
792. CRIMSONBREASTED BARBET, COPPERSMITH *Megalaima haemacephala*	60

Family INDICATORIDAE: Honeyguides

Small, solitary, dull-coloured arboreal birds, brown, olive and grey above and lighter below. Skin very thick and tough. Bill short, stout and blunt to slender and pointed. Tarsus short; feet zygodactyl; toes strong; claws long and hooked. Wings long and pointed; tail somewhat graduated. Flight swift. Food, bees and other hymenopterans; largely also beeswax from abandoned combs. Reputed to have the remarkable habit of guiding humans and other melliphagous animals to bees' nests. Habits and breeding biology very little known. Most African species believed to be brood-parasitic.

	Plate
794. HONEYGUIDE *Indicator xanthonotus*	104

Family PICIDAE: Woodpeckers

Arboreal. Plumage black, white, yellow, red, brown or green. Head large; neck slender but very strong. Tongue extremely long, cylindrical, protrusible and barb-tipped used for catching insects and skewering out beetle larvae from pupal galleries in the wood. Bill strong and chisel-like. Legs short; feet zygodactyl and very strong. Wings strong and rounded; tail rounded or wedge-shaped, the rectrices stiff and pointed, useful as a support when climbing a tree trunk. Sexes dimorphic. Flight strong and 'bounding'. Food, chiefly insects; also fruits. Nest, unlined holes in tree trunks and branches. Eggs, 2-6 or 8.

	Plate
796. WRYNECK *Jynx torquilla*	62
798. SPECKLED PICULET *Picumnus innominatus*	61
800. RUFOUS PICULET *Sasia ochracea*	61
804. RUFOUS WOODPECKER *Micropternus brachyurus*	62
807. SCALYBELLIED GREEN WOODPECKER *Picus squamatus*	62
808. LITTLE SCALYBELLIED GREEN WOODPECKER *Picus myrmecophoneus*	62
809. BLACKNAPED GREEN WOODPECKER *Picus canus*	62
813. LARGE YELLOWNAPED WOODPECKER *Picus flavinucha*	62
815. SMALL YELLOWNAPED WOODPECKER *Picus chlorolophus*	62
816. Ssp. *chlorigaster* of 815	62
819. LESSER GOLDENBACKED WOODPECKER *Dinopium benghalense*	60
823. Ssp. *psarodes* of 819	60
824. HIMALAYAN GOLDENBACKED THREETOED WOODPECKER *Dinopium shorii*	60
825. INDIAN GOLDENBACKED THREETOED WOODPECKER *Dinopium javanense*	60
827. PALEHEADED WOODPECKER *Gecinulus grantia*	62
828. HIMALAYAN GREAT SLATY WOODPECKER *Mulleripicus pulverulentus*	62
830. INDIAN GREAT BLACK WOODPECKER *Dryocopus javensis*	62
831. Ssp. *hodgei* of 830	62
833. RUFOUSBELLIED WOODPECKER or SAPSUCKER *Hypopicus hyperythrus*	61
834. GREAT SPOTTED, or REDCROWNED, PIED WOODPECKER *Picoides major*	61
835. SIND PIED WOODPECKER *Picoides assimilis*	61
836. Ssp. *albescens* of 837	61
837. HIMALAYAN PIED WOODPECKER *Picoides himalayensis*	61
838. DARJEELING PIED WOODPECKER *Picoides darjellensis*	61
840. CRIMSONBREASTED PIED WOODPECKER *Picoides cathpharius*	61
842. BROWNFRONTED PIED WOODPECKER *Picoides auriceps*	61
844. STRIPEBREASTED PIED WOODPECKER *Picoides atratus*	61
845. FULVOUSBREASTED PIED WOODPECKER *Picoides macei*	61

	Plate
847. YELLOWFRONTED PIED WOODPECKER *Picoides mahrattensis*	61
850. GREYCROWNED PIGMY WOODPECKER *Picoides canicapillus*	61
855. THREETOED WOODPECKER *Picoides tridactylus*	61
856. HEARTSPOTTED WOODPECKER *Hemicircus canente*	61
857. REDEARED BAY WOODPECKER *Blythipicus pyrrhotis*	62
858. BLACKBACKED WOODPECKER *Chrysocolaptes festivus*	60
861. LARGER GOLDENBACKED WOODPECKER *Chrysocolaptes lucidus*	60
863. Ssp. *stricklandi* of 861	60
EL. WHITEMANTLED WOODPECKER *Dendrocopos leucopterus*	61
EL. BROWNCAPPED WOODPECKER *Dendrocopos moluccensis*	61
EL. LACED WOODPECKER *Picus vittatus*	62

Family EURYLAIMIDAE: Broadbills

Brightly coloured arboreal birds. Body stout; head broad; eyes large. Bill broad, flattened and hooked, with a wide gape. Legs short; feet strong and syndactyl; toes and claws long. Wings rounded; tail short and square or long, slender and graduated. Sexes dimorphic. Feed largely on insects. Usually tame and confiding. Nest, a conspicuous purse-like structure suspended from a branch with no attempt at concealment. Eggs, 1-5.

	Plate
864. COLLARED BROADBILL *Serilophus lunatus*	63
865. LONGTAILED BROADBILL *Psarisomus dalhousiae*	63

Family PITTIDAE: Pittas

Plump, solitary birds, largely terrestrial and generally brightly coloured. Neck short. Bill strong and slightly curved. Legs strong and long; feet large. Wings short and rounded; tail very short. Generally hop on the ground but perch on trees to sing and roost. Flight strong. Food, insects, grubs and other invertebrates. Voice, rich whistles and trilling calls. Nest, a globular structure of twigs and grass, on the ground or in trees. Eggs, 2-7. Incubation by both sexes.

	Plate
866. BLUENAPED PITTA *Pitta nipalensis*	63
867. INDIAN PITTA *Pitta brachyura*	63
868. BLUEWINGED PITTA *Pitta moluccensis*	63

	Plate
869. HOODED, or GREENBREASTED, PITTA *Pitta sordida*	63
871. BLUE PITTA *Pitta cyanea*	63

Family ALAUDIDAE: Larks

Small, dull-coloured sparrow-like birds, generally grey-brown and buff, cryptically patterned with brown or black. Terrestrial. Bill long and curved or short and stout. Legs short to long; hind claw straight, long and sharp. Wings long and pointed. Sexes generally alike. Flight strong; many species migratory; movement on ground by walking or running (*contra* hopping). Food, seeds and insects. Larks are well-known for their songs and soaring song-flights. Nest, a scrape on the ground with little or no lining. Eggs, 2-6.

	Plate
872. SINGING BUSH LARK *Mirafra javanica*	64
873. BUSH LARK *Mirafra assamica*	64
874. Ssp. *affinis* of 873	64
877. REDWINGED BUSH LARK *Mirafra erythroptera*	64
878. ASHYCROWNED FINCH-LARK *Eremopterix grisea*	64
879. BLACK CROWNED FINCH-LARK *Eremopterix nigriceps*	64
880. DESERT FINCH-LARK *Ammomanes deserti*	64
881. BARTAILED DESERT LARK *Ammomanes cincturus*	64
882. RUFOUSTAILED FINCH-LARK *Ammomanes phoenicurus*	64
884. BIFASCIATED, or LARGE DESERT LARK *Alaemon alaudipes*	64
886. SHORT-TOED LARK *Calandrella cinerea*	64
888a. LESSER SHORT-TOED LARK *Calandrella rufescens*	64
891. SAND LARK *Calandrella raytal*	64
892. EASTERN CALANDRA LARK *Melanocorypha bimaculata*	64
894. LONGBILLED CALANDRA LARK *Melanocorypha maxima*	64
895. Ssp. *albigula* of 897	64
897. HORNED LARK *Eremophila alpestris*	64
899. CRESTED LARK *Galerida cristata*	64
901. MALABAR CRESTED LARK *Galerida malabarica*	64
902. SYKES'S CRESTED LARK *Galerida deva*	64
903. SKYLARK *Alauda arvensis*	64
907. EASTERN SKYLARK *Alauda gulgula*	64
EL. CALANDRA LARK *Melanocorypha calandra*	64

Family HIRUNDINIDAE: Swallows

Gregarious aerial birds, superficially similar to the swifts. Plumage chiefly black, brown, dark blue or dark green. Body slender; neck short. Bill short and flattened, with a very wide gape. Legs short; tarsi feathered in some species; feet small and weak but with strong claws. Wings long and pointed; tail medium to long, truncate to forked. Sexes nearly alike. Flight swift and strong. Food, mainly insects taken on the wing. Nest variable, of conglomerated mud pellets, usually attached to buildings or rocks; also burrows in vertical earth banks. Generally colonial. Eggs, 3-7. Young nidicolous; cared for by both sexes.

	Plate
910. COLLARED SAND MARTIN *Riparia riparia*	65
912. PLAIN SAND MARTIN *Riparia paludicola*	65
913. CRAG MARTIN *Hirundo rupestris*	65
914. DUSKY CRAG MARTIN *Hirundo concolor*	65
915. PALE CRAG MARTIN *Hirundo obsoleta*	65
916. SWALLOW *Hirundo rustica*	65
918. Ssp. *tytleri* of 916	65
919. HOUSE SWALLOW *Hirundo tahitica*	65
921. WIRETAILED SWALLOW *Hirundo smithii*	65
922. INDIAN CLIFF SWALLOW *Hirundo fluvicola*	65
923. STRIATED or REDRUMPED SWALLOW *Hirundo daurica*	65
928. Ssp. *hyperythra* of 923	65
930. HOUSE MARTIN *Delichon urbica*	65
932. NEPAL HOUSE MARTIN *Delichon nipalensis*	65
EL. ASIAN HOUSE MARTIN *Delichon dasypus*	65

Family LANIIDAE: Shrikes

Bold and aggressive birds like miniature raptors with plumage chiefly grey or brown above and white below; face and flight feathers boldly marked in black and white. Head large. Bill strong and hooked. Legs and feet strong; claws sharp. Tail long, narrow and graduated. Strictly carnivorous, feeding on insects and small vertebrates. Known to maintain a 'larder' where surplus food is impaled on thorns to be eaten at leisure. This habit has given the shrikes the substantive name of 'butcher birds'. Voice, harsh calls as well as musical songs; most shrikes are accomplished mimics of other birds' calls. Nest, a deep cup of twigs, grass, wool or tow, etc., placed at moderate height in a thorn bush. Eggs, 3-6.

	Plate
933. GREY SHRIKE *Lanius excubitor*	94
937. LESSER GREY SHRIKE *Lanius minor*	94
938. BURMESE SHRIKE *Lanius collurioides*	94

	Plate
940. BAYBACKED SHRIKE *Lanius vittatus*	94
941. REDBACKED SHRIKE *Lanius collurio*	94
942. Ssp. *phoenicuroides* of 941	94
943. Ssp. *isabellinus* of 941	94
945. GREYBACKED or TIBETAN SHRIKE *Lanius tephronotus*	94
946. RUFOUSBACKED SHRIKE *Lanius schach*	94
948. Ssp. *tricolor* of 946	94
949. BROWN SHRIKE *Lanius cristatus*	94
951. WOODCHAT SHRIKE ?*Lanius Lanius senator*	94

Family ORIOLIDAE: Orioles

Non-social arboreal birds. Plumage chiefly yellow, green, red, brown or black. Bill red, blue or black; strong, pointed and slightly hooked. Legs short and strong. Wings long and pointed. Sexes dimorphic. Flight rapid and undulating. Food, generally insects and fruit. Voice, loud fluty and melodious notes. Nest, a deep cup of woven grass and bast-fibres, slung like a hammock within a fork of branches. Eggs 2-5.

	Plate
952. GOLDEN ORIOLE *Oriolus oriolus*	63
954. BLACKNAPED ORIOLE *Oriolus chinensis diffusus*	63
955. Ssp. *tenuirostris* of 954	63
958. BLACKHEADED ORIOLE *Oriolus xanthornus*	63
961. MAROON ORIOLE *Oriolus traillii*	63

Family DICRURIDAE: Drongos

Pugnacious arboreal birds. Plumage chiefly black or grey. Eyes reddish brown or red in most species. Bill stout, hooked and notched. Legs short, toes and claws stout, the latter curved and needle-sharp. Wings long; tail variable: medium to extremely long and deeply forked, some with projecting spatula-tipped 'wires'. Sexes alike. Flight swift and agile. Food, chiefly insects and other small creatures, and flower-nectar. Bold and fearless; will attack and drive away larger birds intruding the precincts of the nest-tree. Defenceless species often build nests in the same tree as drongos to take advantage of the birds' vigilance and pugnacity in warding off potential marauders. Nest, a shallow cup of twigs, grass, etc. compacted with cobwebs, placed in a horizontal fork of twigs. Eggs, 2-4.

	Plate
963. BLACK DRONGO or KING-CROW *Dicrurus adsimilis*	69
965. GREY or ASHY DRONGO *Dicrurus leucophaeus*	69

	Plate
966a. Ssp. *salangensis* of 965	69
967. WHITEBELLIED DRONGO *Dicrurus caerulescens*	69
970. CROWBILLED DRONGO *Dicrurus annectans*	69
971. BRONZED DRONGO *Dicrurus aeneus*	69
972. LESSER RACKET-TAILED DRONGO *Dicrurus remifer*	69
973. HAIRCRESTED, or SPANGLED, DRONGO *Dicrurus hottentottus*	69
975. ANDAMAN DRONGO *Dicrurus andamanensis*	69
977. GREATER RACKET-TAILED DRONGO *Dicrurus paradiseus*	69
979. Ssp. *lophorhinus* of 977	69

Family ARTAMIDAE: Swallow-Shrikes or Wood Swallows

Arboreal birds with fine-textured soft plumage; the only passerines possessing powder-down feathers. Body stout; neck short. Bill stout, rather finch-like, slightly curved, pointed, and with a wide gape. Legs short and stout; feet strong. Wings long and pointed. Sexes nearly alike. Flight swift and swallow-like: several rapid wing-beats followed by an effortless, graceful glide. Food, insects caught on the wing. Nest, a loosely structured shallow cup of grass, roots, etc., placed on a branch, or in the head of a palm tree often at considerable heights from the ground. Extremely aggressive when nesting, attacking crows and raptors encroaching on the vicinity of the nest-tree. Eggs, 2-4

	Plate
982. ASHY SWALLOW-SHRIKE *Artamus fuscus*	65
983. WHITEBREASTED SWALLOW-SHRIKE *Artamus leucorhynchus*	65

Family STURNIDAE: Starlings, Mynas

Gregarious arboreal or terrestrial birds with silky plumage. Bill typically straight and rather long and slender. Legs and feet strong. Wings short and rounded to long and pointed; tail usually short and square. Sexes nearly alike. Flight strong. Food, insects, fruits, grain and flower-nectar. Voice, a variety of harsh to pleasing notes and whistles. Some species are renowned mimics of the calls of other birds and human speech. Nest, in holes or cavities in trees or buildings, or large globular structures of straw, twigs, etc. in trees. Eggs, 2-9. Some species have become commensals of man and some are serious pests of agriculture and horticulture.

	Plate
984. SPOTTEDWINGED STARE *Saroglossa spiloptera*	96

	Plate
986. GLOSSY STARE or STARLING *Aplonis panayensis*	96
987. GREYHEADED MYNA *Sturnus malabaricus*	96
988. Ssp. *blythi* of 987	96
991. WHITEHEADED MYNA *Sturnus erythropygius*	96
993. CEYLON WHITEHEADED MYNA *Sturnus senex*	96
994. BLACKHEADED, or BRAHMINY, MYNA *Sturnus pagodarum*	96
995. DAURIAN MYNA *Sturnus sturninus*	96
996. ROSY PASTOR *Sturnus roseus*	96
997. STARLING *Sturnus vulgaris*	96
1002. PIED MYNA *Sturnus contra*	96
1005. CHINESE or GREYBACKED MYNA *Sturnus sinensis*	96
1006. COMMON MYNA *Acridotheres tristis*	96
1008. BANK MYNA *Acridotheres ginginianus*	96
1009. JUNGLE MYNA *Acridotheres fuscus*	96
1012. ORANGEBILLED JUNGLE MYNA *Acridotheres javanicus*	96
1013. COLLARED MYNA *Acridotheres albocinctus*	96
1014. GOLDCRESTED MYNA *Mino coronatus*	96
1015. GRACKLE or HILL MYNA *Gracula religiosa*	96
1019. CEYLON HILL MYNA *Gracula ptilogenys*	96

Family CORVIDAE: Crows, Magpies, Jays, etc.

The largest passerine birds. Most species highly gregarious and social. Bill stout and powerful. Tarsi large, either fully booted or scutellated in front and booted behind. Wings and tail strong. Sexes alike or nearly so. Food, all types of plant and animal matter. Most species bold, and aggressive. Some species show a highly developed mentality and have a complex social organisation. Nest, generally bulky, open, made of twigs. Eggs, 3-6.

	Plate
1020. REDCROWNED JAY *Garrulus glandarius*	70
1022. BLACKTHROATED JAY *Garrulus lanceolatus*	70
1023. GREEN MAGPIE *Cissa chinensis*	70
1024. CEYLON MAGPIE *Cissa ornata*	70
1025. YELLOWBILLED BLUE MAGPIE *Cissa flavirostris*	70
1027. REDBILLED BLUE MAGPIE *Cissa erythrorhyncha*	70

	Plate
1029. WHITERUMPED MAGPIE *Pica pica*	70
1032. INDIAN TREE PIE *Dendrocitta vagabunda*	70
1035. BLACKBROWED TREE PIE *Dendrocitta frontalis*	70
1036. WHITEBELLIED TREE PIE *Dendrocitta leucogastra*	70
1038. HIMALAYAN TREE PIE *Dendrocitta formosae*	70
1040. ANDAMAN TREE PIE *Dendrocitta bayleyi*	70
1041. HUME'S GROUND CHOUGH *Podoces humilis*	70
1042. NUTCRACKER *Nucifraga caryocatactes*	70
1043. Ssp. *hemispila* of 1042	70
1045. YELLOWBILLED, or ALPINE, CHOUGH *Pyrrhocorax graculus*	71
1046. REDBILLED CHOUGH *Pyrrhocorax pyrrhocorax*	71
1049. HOUSE CROW *Corvus splendens*	71
1052. ROOK *Corvus frugilegus*	71
1053. JACKDAW *Corvus monedula*	71
1054. JUNGLE CROW *Corvus macrorhynchos*	71
1058. CARRION CROW *Corvus corone*	71
1058a. Ssp. *sharpii* of 1058	71
1059. RAVEN *Corvus corax*	71
1061. BROWN-NECKED RAVEN *Corvus ruficollis*	71

Family BOMBYCILLIDAE: Waxwings, Silky Flycatchers

Rather sluggish arboreal birds with soft silky plumage. Crested. Bill short and thick, hooked, notched, and with a wide gape. Legs short. Wings short to long and pointed; tail short and square. The waxwings have the shafts of the secondaries prolonged into waxy tips. Food, berries, flowers, and insects caught on the wing. Flight rapid and direct or undulating. Nest, a cup of pliant twigs, moss and grass, in small trees and bushes. Eggs, 3-7.

	Plate
1062. WAXWING *Bombycilla garrulus*	94
1063. GREY HYPOCOLIUS *Hypocolius ampelinus*	94

Family CAMPEPHAGIDAE: Cuckoo-Shrikes and Minivets

Small to medium sized arboreal birds. Plumage soft, of loosely attached feathers, grey, black, blue, red, orange or yellow. Bill relatively heavy and slightly to strongly hooked. Legs short. Tail typically graduated and long. The birds rarely descend to the ground. Food, chiefly insects. Nest, a shallow open cup of twigs and rootlets cemented with cobweb on a high branch or in a fork of branches. Eggs, 2-5. Incubation by both sexes or by female alone.

	Plate
1065. PIED FLYCATCHER-SHRIKE *Hemipus picatus*	66
1068. LARGE WOOD SHRIKE *Tephrodornis virgatus*	66
1070. COMMON WOOD SHRIKE *Tephrodornis pondicerianus*	66
1072. LARGE CUCKOO-SHRIKE *Coracina novaehollandiae*	66
1076. BARRED CUCKOO-SHRIKE *Coracina striata*	66
1077. SMALLER GREY CUCKOO-SHRIKE *Coracina melaschistos*	66
1078. BLACKHEADED CUCKOO-SHRIKE *Coracina melanoptera*	66
1079a. PIED CUCKOO-SHIRKE *Coracina nigra*	66
1080. Ssp. *speciosus* of 1081	66
1081. SCARLET MINIVET *Pericrocotus flammeus*	66
1084. SHORTBILLED MINIVET *Pericrocotus brevirostris*	66
1085. LONGTAILED MINIVET *Pericrocotus ethologus*	66
1088. YELLOWTHROATED MINIVET *Pericrocotus solaris*	66
1089. ROSY MINIVET *Pericrocotus roseus*	66
1089a. ASHY MINIVET *Pericrocotus divaricatus*	66
1093. SMALL MINIVET *Pericrocotus cinnamomeus*	66
1096. WHITEBELLIED MINIVET *Pericrocotus erythropygius*	66

Family IRENIDAE: Fairy Bluebird, Ioras and Leaf Birds

Small to medium arboreal birds of brightly coloured plumage, chiefly green, yellow, blue and black, or combinations. Bill moderately long and slightly hooked; in some species slender and curved. Legs short and thick; feet small. Wings rounded; tail short to long, square or rounded. Sexes dimorphic, the males more brightly coloured. Food, fruit, berries, seeds, flower nectar and insects. Voice, a variety of mellow and sibilant whistles, harsh chattering and mimicry (leaf birds). Nest, neat and cup-shaped, bound with cobweb built in trees. Eggs, 2-4.

	Plate
1098. COMMON IORA *Aegithina tiphia*	67
1102. MARSHALL'S IORA *Aegithina nigrolutea*	67
1103. GOLDENFRONTED CHLOROPSIS, or LEAF BIRD *Chloropsis aurifrons*	67
1106. ORANGEBELLIED CHLOROPSIS, or LEAF BIRD *Chloropsis hardwickii*	67

		Plate
1108.	GOLDMANTLED CHLOROPSIS, or LEAF BIRD *Chloropsis chochinchinensis*	67
1109.	FAIRY BLUEBIRD *Irena puella*	67

Family PYCNONOTIDAE: Bulbuls

Noisy, gregarious and mostly dull-coloured birds with soft, long and fluffy plumage. Bill short to medium length and slightly curved. Legs short and rather weak. Wings short and rounded; tail comparatively longer. Hairlike feathers on nape and rictal bristles usually well developed. Sexes generally alike. Food, fruit, nectar, berries, insects. Most have sprightly musical calls; some species renowned as good songsters. Nest, open cup of twigs, leaves, etc., generally built in bushes or trees. Eggs, 2-5.

		Plate
1111.	FINCHBILLED BULBUL *Spizixos canifrons*	68
1112.	BLACKHEADED BULBUL *Pycnonotus atriceps*	68
1114.	GREYHEADED BULBUL *Pycnonotus priocephalus*	68
1115.	BLACKHEADED YELLOW BULBUL *Pycnonotus melanicterus flaviventris*	68
1116.	RUBYTHROATED YELLOW BULBUL *Pycnonotus melanicterus gularis*	68
1117.	BLACKCAPPED YELLOW BULBUL *Pycnonotus melanicterus melanicterus*	68
1120.	REDWHISKERED BULBUL *Pycnonotus jocosus*	67
1123.	Ssp. *leucotis* of 1125	67
1125.	WHITECHEEKED BULBUL *Pycnonotus leucogenys*	67
1128.	REVENTED BULBUL *Pycnonotus cafer*	67
1131.	Ssp. *bengalensis* of 1128	67
1133.	STRIATED GREEN BULBUL *Pycnonotus striatus*	68
1135.	YELLOWTHROATED BULBUL *Pycnonotus xantholaemus*	68
1136.	YELLOWEARED BULBUL *Pycnonotus penicillatus*	68
1137.	BLYTH'S BULBUL *Pycnonotus flavescens*	68
1138.	WHITEBROWED BULBUL *Pycnonotus luteolus*	68
1140.	WHITETHROATED BULBUL *Cringer flaveolus*	68
1141.	OLIVE BULBUL *Hypsipetes viridescens*	68
1142.	NICOBAR BULBUL *Hypsipetes nicobariensis*	68
1144.	YELLOWBROWED BULBUL *Hypsipetes indicus*	68
1146.	RUFOUSBELLIED BULBUL *Hypsipetes mcclellandi*	68
1147.	BROWNEARED BULBUL *Hypsipetes flavalus*	67
1148.	BLACK BULBUL *Hypsipetes madagascariensis*	67

Family MUSCICAPIDAE: Babblers, Flycatchers, Warbles, Thrushes & Chats

A vast agglomeration of superficially heterogeneous passerine birds erstwhile recognised as four discrete families, namely Timaliidae (Babblers), Muscicapidae (Flycatchers), Sylviidae (Warblers), and Turdidae (Thrushes and Chats). The occurrence of connecting forms makes it impracticable to separate them from one another on clear-cut anatomical or evolutionary criteria. Recent behavioural studies, moreover, provide further confirmation of their close inter-relationship; hence, in confirmity with international consensus the families have been demoted to subfamilial rank and merged together into a single huge family. However, for greater convenience the four subfamilies and the contained Indian species of each are here dealt with individually.

Subfamily TIMALINAE: Babblers

Arboreal or terrestrial birds with soft lax plumage. Bill generally strong. Legs and feet strong. Wings short and rounded. Flight weak. Food, insects, other small animals, flower-nectar, and fruit. Most species noisy, with harsh calls; some with melodious song. Nest, cup-shaped or domed, built chiefly on trees and bushes. Eggs, 1-7.

		Plate
1154.	SPOTTED BABBLER *Pellorneum ruficeps*	75
1160.	MARSH SPOTTED BABBLER *Pellorneum palustre*	75
1161.	BROWNCAPPED BABBLER *Pellorneum fuscocapillum*	75
1164.	BROWN BABBLER *Pellorneum albiventre*	75
1166.	TICKELL'S BABBLER *Trichastoma tickelli*	75
1167.	ABBOTT'S BABBLER *Trichastoma abbotti*	75
1169.	Ssp. *schisticeps* of 1173	74
1173.	SLATYHEADED SCIMITAR BABBLER *Pomatorhinus horsfieldii*	74
1178.	RUFOUSNECKED SCIMITAR BABBLER *Pomatorhinus ruficollis*	74
1181.	RUSTYCHEEKED SCIMITAR BABBLER *Pomatorhinus erythrogenys*	74
1185.	LARGE SCIMITAR BABBLER *Pomatorhinus hypoleucos*	74
1186.	CORALBILLED SCIMITAR BABBLER *Pomatorhinus ferruginosus*	74
1187.	Ssp. *formosus* of 1186	74
1189.	LLOYD'S SCIMITAR BABBLER *Pomatorhinus ochraceiceps*	74
1191.	SLENDERBILLED SCIMITAR BABBLER *Xiphirhynchus superciliaris*	74
1193.	LONGBILLED WREN BABBLER *Rimator malacoptilus*	75

		Plate
1194.	STREAKED, or SHORT-TAILED, WREN-BABBLER *Napothera brevicaudata*	75
1195.	SMALL WREN-BABBLER *Napothera epilepidota*	75
1198.	SCALYBREASTED WREN-BABBLER *Pnoepyga albiventer*	75
1199.	BROWN, or LESSER SCALYBREASTED, WREN-BABBLER *Pnoepyga pusilla*	75
1200.	TAILED WREN-BABBLER *Spelaeornis caudatus*	75
1201.	MISHMI WREN *Spelaeornis badeigularis*	75
1202.	LONGTAILED WREN-BABBLER *Spelaeornis longicaudatus*	75
1203.	STREAKED LONGTAILED WREN-BABBLER *Spelaeornis chocolatinus*	75
1205.	LONGTAILED SPOTTED WREN-BABBLER *Spelaeornis troglodytoides*	75
1206.	SPOTTED WREN-BABBLER *Spelaeornis formosus*	75
1207.	WEDGEBILLED WREN *Sphenocichla humei*	75
1209.	REDFRONTED BABBLER *Stachyris rufifrons*	74
1210.	REDHEADED BABBLER *Stachyris ruficeps*	74
1211.	REDBILLED BABBLER *Stachyris pyrrhops*	74
1212.	GOLDHEADED BABBLER *Stachyris chrysaea*	74
1214.	BLACKTHROATED BABBLER *Stachyris nigriceps*	74
1218.	AUSTEN'S SPOTTED BABBLER *Stachyris oglei*	74
1219.	Ssp. *abuensis* of 1222	74
1222.	RUFOUSBELLIED BABBLER *Dumetia hyperythra*	74
1224.	BLACKHEADED BABBLER *Rhopocichla atriceps*	74
1226.	Ssp. *siccatus* of 1224	74
1228.	YELLOWBREASTED BABBLER *Macronous gularis*	74
1229.	REDCAPPED BABBLER *Timalia pileata*	79
1231.	YELLOWEYED BABBLER *Chrysomma sinense*	79
1233.	JERDON'S BABBLER *Chrysomma altirostre*	79
1235.	BEARDED TIT-BABBLER, or REEDLING *Panurus biarmicus*	73
1236.	GREAT PARROTBILL *Conostoma aemodium*	79
1237.	BROWN SUTHORA or PARROTBILL *Paradoxornis unicolor*	79
1238.	FULVOUSFRONTED SUTHORA or PARROTBILL *Paradoxornis fulvifrons*	73
1241.	ORANGE SUTHORA or PARROTBILL *Paradoxornis nipalensis humii*	73
1242.	ORANGE SUTHORA or PARROTBILL *Paradoxornis nipalensis poliotis*	73
1245.	Ssp. *oatesi* of 1246	73

		Plate
1246.	LESSER REDHEADED SUTHORA or PARROTBILL *Paradoxornis atrosuperciliaris*	73
1247.	GREATER REDHEADED PARROTBILL *Paradoxornis ruficeps*	73
1249.	GREYHEADED PARROTBILL *Paradoxornis gularis*	73
1251.	GOULD'S PARROTBILL *Paradoxornis flavirostris*	73
1252.	WHITETHROATED PARROTBILL *Paradoxornis guttaticollis*	73
1254.	COMMON BABBLER *Turdoides caudatus*	79
1256.	STRIATED BABBLER *Turdoides earlei*	79
1257.	SLENDERBILLED BABBLER *Turdoides longirostris*	79
1258.	LARGE GREY BABBLER *Turdoides malcolmi*	79
1259.	RUFOUS BABBLER *Turdoides subrufus*	79
1265.	JUNGLE BABBLER *Turdoides striatus*	79
1266.	CEYLON RUFOUS BABBLER *Turdoides rufescens*	79
1267.	WHITEHEADED BABBLER *Turdoides affinis*	79
1269.	SPINY BABBLER *Turdoides nipalensis*	79
1270.	CHINESE BABAX *Babax lanceolatus*	76
1271.	GIANT TIBETAN BABAX *Babax waddelli*	76
1272.	ASHYHEADED LAUGHING THRUSH *Garrulax cinereifrons*	79
1274.	WHITETHROATED LAUGHING THRUSH *Garrulax albogularis*	77
1275.	NECKLACED LAUGHING THRUSH *Garrulax moniligerus*	76
1277.	BLACKGORGETED LAUGHING THRUSH *Garrulax pectoralis*	76
1279.	STRIATED LAUGHING THRUSH *Garrulax striatus*	76
1283.	WHITECRESTED LAUGHING THRUSH *Garrulax leucolophus*	77
1285.	CHESTNUTBACKED LAUGHING THRUSH *Garrulax nuchalis*	77
1286.	YELLOWTHROATED LAUGHING THRUSH *Garrulax galbanus*	77
1287.	YELLOWBREASTED LAUGHING THRUSH *Garrulax delesserti*	77
1288.	Ssp. *gularis* of 1287.	77
1290.	VARIEGATED LAUGHING THRUSH *Garrulax variegatus*	77
1291.	ASHY LAUGHING THRUSH *Garrulax cineraceus*	77
1294.	RUFOUSCHINNED LAUGHING THRUSH *Garrulax rufogularis*	76
1297.	Ssp. *maximus* of 1299	76

		Plate
1299.	WHITESPOTTED LAUGHING THRUSH *Garrulax ocellatus*	76
1300.	GREYSIDED LAUGHING THRUSH *Garrulax caerulatus*	77
1303.	RUFOUSNECKED LAUGHING THRUSH *Garrulax ruficollis*	77
1304.	SPOTTEDBREASTED LAUGHING THRUSH *Garrulax merulinus*	76
1306.	WHITEBROWED LAUGHING THRUSH *Garrulax sannio*	77
1307.	NILGIRI LAUGHING THRUSH *Garrulax cachinnans*	77
1309.	WHITEBREASTED LAUGHING THRUSH *Garrulax jerdoni*	77
1314.	STREAKED LAUGHING THRUSH *Garrulax lineatus*	76
1317.	MANIPUR STREAKED LAUGHING THRUSH *Garrulax virgatus*	76
1318.	BROWNCAPPED LAUGHING THRUSH *Garrulax austeni*	76
1319.	BLUEWINGED LAUGHING THRUSH *Garrulax squamatus*	76
1320.	PLAINCOLOURED LAUGHING THRUSH *Garrulax subunicolor*	76
1321.	PRINCE HENRI'S LAUGHING THRUSH *Garrulax henrici*	77
1322.	BLACKFACED LAUGHING THRUSH *Garrulax affinis*	77
1324.	REDHEADED LAUGHING THRUSH *Garrulax erythrocephalus*	76
1326.	Ssp. *nigrimentum* of 1324	76
1331.	CRIMSONWINGED LAUGHING THRUSH *Garrulax phoeniceus*	77
1333.	SILVEREARED MESIA *Leiothrix argentauris*	80
1336.	REDBILLED LEIOTHRIX *Leiothrix lutea*	80
1338.	FIRETAILED MYZORNIS *Myzornis pyrrhoura*	67
1339.	NEPAL CUTIA *Cutia nipalensis*	80
1340.	RUFOUSBELLIED SHRIKE-BABBLER *Pteruthius rufiventer*	80
1341.	REDWINGED SHRIKE-BABBLER *Pteruthius flaviscapis*	80
1343.	GREEN SHRIKE-BABBLER *Pteruthius xanthochlorus*	80
1345.	CHESTNUT-THROATED SHRIKE-BABBLER *Pteruthius melanotis*	80
1346.	CHESTNUTFRONTED SHRIKE-BABBLER *Pteruthius aenobarbus*	80
1347.	WHITEHEADED SHRIKE-BABBLER *Gampsorhynchus rufulus*	78

	Plate
1348. SPECTACLED BARWING *Actinodura egertoni*	78
1352. HOARY BARWING *Actinodura nipalensis*	78
1355. AUSTEN'S BARWING *Actinodura waldeni*	78
1357. REDTAILED MINLA *Minla ignotincta*	80
1359. BARTHROATED SIVA *Minla strigula*	80
1362. BLUEWINGED SIVA *Minla cyanouroptera*	80
1365. WHITEBROWED YUHINA *Yuhina castaniceps*	78
1366. WHITENAPED YUHINA *Yuhina bakeri*	78
1368. YELLOWNAPED YUHINA *Yuhina flavicollis*	78
1372. STRIPETHROATED YUHINA *Yuhina gularis*	78
1373. RUFOUSVENTED YUHINA *Yuhina occipitalis*	78
1374. BLACKCHINNED YUHINA *Yuhina nigrimenta*	78
1375. WHITEBELLIED YUHINA *Yuhina xantholeuca*	78
1376. GOLDENBREASTED TIT-BABBLER *Alcippe chrysotis*	80
1378. DUSKY-GREEN, or YELLOWTHROATED, TIT-BABBLER *Alcippe cinerea*	78
1379. CHESTNUT-HEADED TIT-BABBLER *Alcippe castaneceps*	78
1381. WHITEBROWED TIT-BABBLER *Alcippe vinipectus*	78
1385. BROWNHEADED TIT-BABBLER *Alcippe cinereiceps*	78
1386. REDTHROATED TIT-BABBLER *Alcippe rufogularis*	78
1388. RUFOUSHEADED TIT-BABBLER *Alcippe brunnea*	78
1390. QUAKER BABBLER *Alcippe poioicephala*	78
1392. NEPAL BABBLER *Alcippe nipalensis*	78
1395. CHESTNUTBACKED SIBIA *Heterophasia annectens*	80
1396. BLACKCAPPED SIBIA *Heterophasia capistrata*	80
1399. GREY SIBIA *Heterophasia gracilis*	80
1400. BEAUTIFUL SIBIA *Heterophasia pulchella*	80
1401. LONGTAILED SIBIA *Heterophasia picaoides*	80
EL. SPOTBREASTED SCIMITAR BABBLER *Pomatorhinus erythrocnemis*	74

Subfamily MUSCICAPINAE: Flycatchers

Dull to brightly coloured small to medium-sized arboreal birds. Bill typically broad and flat at base. Legs short. Wings short and rounded to long and pointed. Tail variable: short and square or notched; or graduated and fan-shaped, to longish with flowing ribbons. Food, insects and spiders, often caught on the wing. Some species have well-developed songs. Nest, a neatly built deepish cup of grasses etc. usually bound or plastered with cobweb, placed on a tree or bush, sometimes in holes. Eggs, 2-6. Incubation and nest-feeding by both sexes, but female does the most work.

	Plate
1402. OLIVE FLYCATCHER *Rhinomyias brunneata*	92
1403. SPOTTED FLYCATCHER *Muscicapa striata*	92
1406. SOOTY FLYCATCHER *Muscicapa sibirica*	92
1407. BROWN FLYCATCHER *Muscicapa latirostris*	92
1408. BROWNBREASTED FLYCATCHER *Muscicapa muttui*	92
1409. RUFOUSTAILED FLYCATCHER *Muscicapa ruficauda*	92
1410. FERRUGINOUS FLYCATCHER *Muscicapa ferruginea*	92
1411. REDBREASTED FLYCATCHER *Muscicapa parva*	92
1412. Ssp. *albicilla* of 1411	92
1413. KASHMIR REDBREASTED FLYCATCHER *Muscicapa subrubra*	92
1414. ORANGEGORGETED FLYCATCHER *Muscicapa strophiata*	92
1415. WHITEGORGETED FLYCATCHER *Muscicapa monileger*	92
1416. Ssp. *leucops* of 1415	92
1417. RUFOUSBREASTED BLUE FLYCATCHER *Muscicapa hyperythra*	93
1418. RUSTYBREASTED BLUE FLYCATCHER *Muscicapa hodgsonii*	93
1419. LITTLE PIED FLYCATCHER *Muscicapa westermanni*	92
1421. WHITEBROWED BLUE FLYCATCHER *Muscicapa superciliaris*	92
1423. SLATY BLUE FLYCATCHER *Muscicapa leucomelanura*	92
1424. Ssp. *minuta* of 1423	92
1426. SAPPHIREHEADED FLYCATCHER *Muscicapa sapphira*	93
1427. BLACK-AND-ORANGE FLYCATCHER *Muscicapa nigrorufa*	92
1428. LARGE NILTAVA *Muscicapa grandis*	92
1429. SMALL NILTAVA *Muscicapa macgrigoriae*	92
1432. RUFOUSBELLIED NILTAVA *Muscicapa sundara*	93
1433. RUFOUSBELLIED BLUE FLYCATCHER *Muscicapa vivida*	93
1434. WHITETAILED BLUE FLYCATCHER *Muscicapa concreta*	93
1435. WHITEBELLIED BLUE FLYCATCHER *Muscicapa pallipes*	93
1436. BROOKS'S FLYCATCHER *Muscicapa poliogenys*	93
1439. PALE BLUE FLYCATCHER *Muscicapa unicolor*	93

	Plate
1440. BLUETHROATED FLYCATCHER *Muscicapa rubeculoides*	93
1441. LARGEBILLED BLUE FLYCATCHER *Muscicapa banyumas*	93
1442. TICKELL'S BLUE FLYCATCHER *Muscicapa tickelliae*	93
1444. DUSKY BLUE FLYCATCHER *Muscicapa sordida*	93
1445. VERDITER FLYCATCHER *Muscicapa thalassina*	93
1446. NILGIRI FLYCATCHER *Muscicapa albicaudata*	93
1447. PIGMY BLUE FLYCATCHER *Muscicapella hodgsoni*	93
1449. GREYHEADED FLYCATCHER *Culicicapa ceylonensis*	91
1450. YELLOWBELLIED FANTAIL FLYCATCHER *Rhipidura hypoxantha*	91
1451. WHITEBROWED FANTAIL FLYCATCHER *Rhipidura aureola*	94
1455. WHITETHROATED FANTAIL FLYCATCHER *Rhipidura albicollis*	94
1458. Ssp. *albogularis* of 1455	94
1461. PARADISE FLYCATCHER *Terpsiphone paradisi*	94
1465. BLACKNAPED FLYCATCHER *Hypothymis azurea*	94

Subfamily PACHYCEPHALINAE: Thickheads or Shrikebilled Flycatchers

Bill strong, deep, laterally compressed, notched at tip. Three strong rictal bristles; numerous smaller hairs overhanging nostril. Wing long; tail square. Sexes alike.

	Plate
1470. GREY THICKHEAD, or MANGROVE WHISTLER *Pachycephala grisola*	92

Subfamily SYLVIINAE: Warblers

Small, dull-coloured, active arboreal birds. Bill slender and pointed. Legs short. Wings of medium length and rounded. Food, insects, spiders, etc., sometimes berries. Most species have well-developed melodious songs that are often diagnostic for species otherwise confusingly alike. Nest, cup-shaped or domed, placed on the ground among vegetation or up in trees or bushes. Eggs, 3-5 or 6.

	Plate
1471. DULL SLATYBELLIED GROUND WARBLER *Tesia cyaniventer*	91

		Plate
1472.	SLATYBELLIED GROUND WARBLER *Tesia olivea*	91
1473.	CHESTNUT-HEADED GROUND WARBLER *Tesia castaneocoronata*	91
1474.	PALEFOOTED BUSH WARBLER *Cettia pallidipes*	87
1476.	CHINESE BUSH WARBLER *Cettia diphone*	87
1478.	STRONGFOOTED BUSH WARBLER *Cettia montana*	87
1479.	LARGE BUSH WARBLER *Cettia major*	87
1481.	ABERRANT BUSH WARBLER *Cettia flavolivacea*	87
1484.	VERREAUX'S BUSH WARBLER *Cettia acanthizoides*	87
1486.	RUFOUSCAPPED BUSH WARBLER *Cettia brunnifrons*	87
1488.	CETTI'S WARBLER *Cettia cetti*	87
1490.	SPOTTED BUSH WARBLER *Bradypterus thoracicus*	87
1491.	LARGEBILLED BUSH WARBLER *Bradypterus major*	87
1492.	CHINESE BUSH WARBLER *Bradypterus tacsanowskius*	87
1493.	BROWN BUSH WARBLER *Bradypterus luteoventris*	87
1494.	PALLISER'S WARBLER *Bradypterus palliseri*	87
1495.	MOUSTACHED SEDGE WARBLER *Acrocephalus melanopogon*	89
1496.	FANTAIL WARBLER *Cisticola exilis*	89
1498.	STREAKED FANTAIL WARBLER *Cisticola juncidis*	89
1501.	BEAVAN'S WREN-WARBLER *Prinia rufescens*	88
1503.	FRANKLIN'S WREN-WARBLER *Prinia hodgsonii*	88
1506.	RUFOUSFRONTED WREN-WARBLER *Prinia buchanani*	89
1507.	HODGSON'S WREN-WARBLER *Prinia cinereocapilla*	88
1508.	STREAKED WREN-WARBLER *Prinia gracilis*	89
1511.	PLAIN WREN-WARBLER *Prinia subflava*	89
1515.	Ssp. *stewarti* of 1517	88
1517.	ASHY WREN-WARBLER *Prinia socialis*	88
1521.	JUNGLE WREN-WARBLER *Prinia sylvatica*	89
1524.	Ssp. *sindiana* of 1521	89
1525.	YELLOWBELLIED WREN-WARBLER *Prinia flaviventris*	89
1527.	BROWN HILL WARBLER *Prinia criniger*	89

	Plate
1529. BLACKTHROATED HILL WARBLER *Prinia atrogularis*	89
1531. LONGTAILED GRASS WARBLER *Prinia burnesii*	89
1532. Ssp. *cinerascens* of 1531	89
1533. STREAKED SCRUB WARBLER *Scotocerca inquieta*	89
1534. LARGE GRASS WARBLER *Graminicola bengalensis*	89
1538. TAILOR BIRD *Orthotomus sutorius*	91
1540. BLACKNECKED TAILOR BIRD *Orthotomus atrogularis*	91
1541. GOLDENHEADED TAILOR BIRD *Orthotomus cucullatus*	91
1543. PALLAS'S GRASSHOPPER WARBLER *Locustella certhiola*	89
1544. STREAKED GRASSHOPPER WARBLER *Locustella lanceolata*	89
1545. GRASSHOPPER WARBLER *Locustella naevia*	89
EL. Ssp. *obscurior* of 1545	89
1546. BROADTAILED GRASS WARBLER *Schoenicola platyura*	89
1547. BRISTLED GRASS WARBLER *Chaetornis striatus*	89
1548. STRIATED MARSH WARBLER *Megalurus palustris*	89
1549. THICKBILLED WARBLER *Acrocephalus aedon*	87
1550. INDIAN GREAT REED WARBLER *Acrocephalus stentoreus*	87
1555. BLACKBROWED REED WARBLER *Acrocephalus bistrigiceps*	87
1555a. REED WARBLER *Acrocephalus scirpaceus*	87
1556. BLYTH'S REED WARBLER *Acrocephalus dumetorum*	87
1557. PADDYFIELD WARBLER *Acrocephalus agricola*	87
1562. BOOTED WARBLER *Hippolais caligata*	90
1564. UPCHER'S WARBLER *Hippolais languida*	90
1564a. BARRED WARBLER *Sylvia nisoria*	88
1565. ORPHEAN WARBLER *Sylvia hortensis*	88
1566. WHITETHROAT *Sylvia communis*	88
1567. LESSER WHITETHROAT *Sylvia curruca blythi*	88
1569. LESSER WHITETHROAT *Sylvia curruca minula*	88
1570. LESSER WHITETHROAT *Sylvia curruca althaea*	88
1571. DESERT WARBLER *Sylvia nana*	88
1571a. MENETRIES'S WARBLER *Sylvia mystacea*	88
1574. BROWN LEAF WARBLER, or CHIFFCHAFF *Phylloscopus collybita*	90

		Plate
1577.	PLAIN LEAF WARBLER *Phylloscopus neglectus*	90
1578.	TYTLER'S LEAF WARBLER *Phylloscopus tytleri*	90
1579.	TICKELL'S LEAF WARBLER *Phylloscopus affinis*	90
1580.	Ssp. *arcanus* of 1579	90
1581.	OLIVACEOUS LEAF WARBLER *Phylloscopus griseolus*	90
1582.	SMOKY WILLOW WARBLER *Phylloscopus fuligiventer*	90
1586.	DUSKY LEAF WARBLER *Phylloscopus fuscatus*	90
1588.	ORANGEBARRED LEAF WARBLER *Phylloscopus pulcher*	90
1592.	PLAIN, or YELLOWBROWED, LEAF WARBLER *Phylloscopus inornatus*	90
1593.	BROOKS'S LEAF WARBLER *Phylloscopus subviridis*	90
1594.	PALLAS'S LEAF WARBLER *Phylloscopus proregulus*	90
1599.	GREYFACED LEAF WARBLER *Phylloscopus maculipennis*	90
1601.	LARGEBILLED LEAF WARBLER *Phylloscopus magnirostris*	90
1605.	DULL GREEN LEAF WARBLER *Phylloscopus trochiloides*	90
1606.	LARGE CROWNED LEAF WARBLER *Phylloscopus occipitalis*	90
1607.	Ssp. *coronatus* of 1606	90
1609.	BLYTH'S LEAF WARBLER *Phylloscopus reguloides*	90
1612.	BLACKBROWED LEAF WARBLER *Phylloscopus cantator*	90
1613.	ALLIED FLYCATCHER-WARBLER *Seicercus affinis*	91
1615.	BLACKBROWED FLYCATCHER-WARBLER *Seicercus burkii*	91
1617.	GREYHEADED FLYCATCHER-WARBLER *Seicercus xanthoschistos*	91
1620.	GREYCHEEKED FLYCATCHER-WARBLER *Seicercus poliogenys*	91
1621.	CHESTNUT-HEADED FLYCATCHER-WARBLER *Seicercus castaniceps*	91
1622.	YELLOWBELLIED FLYCATCHER-WARBLER *Abroscopus superciliaris*	91
1624.	BLACKFACED FLYCATCHER-WARBLER *Abroscopus schisticeps*	91
1626.	WHITETHROATED FLYCATCHER-WARBLER *Abroscopus albogularis*	91

	Plate
1627. BROADBILLED FLYCATCHER-WARBLER *Abroscopus hodgsoni*	91
1629. GOLDCREST *Regulus regulus*	88
1632. CRESTED TIT-WARBLER *Leptopoecile elegans*	88
1633. STOLICZKA'S TIT-WARBLER *Leptopoecile sophiae*	88
1634. Ssp. *obscura* of 1633	88
EL. RADDE'S LEAF WARBLER *Phylloscopus schwarzi*	90

Subfamily TURDINAE: Thrushes and Chats

Plump, arboreal or terrestrial birds with soft plumage. Bill slender. Legs and feet stout; tarsi booted. Wings short and rounded to long and pointed; tail square, rounded or emarginate. Food, a variety of animal and vegetable matter. Some species have highly developed songs. Nest, an open cup in trees, bushes, on the ground, or in holes. Eggs, 2-6.

1635. GOULD'S SHORTWING *Brachypteryx stellata*	81
1636. RUSTYBELLIED SHORTWING *Brachypteryx hyperythra*	81
1637. RUFOUSBELLIED SHORTWING *Brachypteryx major*	81
1639. LESSER SHORTWING *Brachypteryx leucophrys*	81
1640. WHITEBROWED SHORTWING *Brachypteryx montana*	81
1641. RUFOUS CHAT *Erythropygia galactotes*	82
1642. NIGHTINGALE *Erithacus megarhynchos*	81
1643. RUBYTHROAT *Erithacus calliope*	81
1644. BLUETHROAT *Erithacus svecicus*	81
1647. HIMALAYAN RUBYTHROAT *Erithacus pectoralis*	81
1650. BLUE CHAT *Erithacus brunneus*	81
1652. FIRETHROAT *Erithacus pectardens*	81
1653. SIBERIAN BLUE CHAT *Erithacus cyane*	81
1656. ORANGEFLANKED BUSH ROBIN *Erithacus cyanurus*	81
1658. GOLDEN BUSH ROBIN *Erithacus chrysaeus*	81
1659. WHITEBROWED BUSH ROBIN *Erithacus indicus*	81
1660. RUFOUSBELLIED BUSH ROBIN *Erithacus hyperythrus*	81
1661. MAGPIE-ROBIN or DHYAL *Copsychus saularis*	83
1665. SHAMA *Copsychus malabaricus malabaricus*	83
1668. ANDAMAN SHAMA *Copsychus malabaricus albiventris*	83

		Plate
1669.	EVERSMANN'S REDSTART *Phoenicurus erythronotus*	82
1670.	BLUEHEADED REDSTART *Phoenicurus caeruleocephalus*	82
1671.	BLACK REDSTART *Phoenicurus ochruros phoenicuroides*	82
1672.	BLACK REDSTART *Phoenicurus ochruros rufiventris*	82
1673.	REDSTART *Phoenicurus phoenicurus*	82
1674.	HODGSON'S REDSTART *Phoenicurus hodgsoni*	82
1675.	BLUEFRONTED REDSTART *Phoenicurus frontalis*	82
1676.	WHITETHROATED REDSTART *Phoenicurus schisticeps*	82
1677.	DAURIAN REDSTART *Phoenicurus auroreus*	82
1678.	GULDENSTÄDT'S REDSTART *Phoenicurus erythrogaster*	82
1679.	PLUMBEOUS REDSTART *Rhyacornis fuliginosus*	82
1680.	HODGSON'S SHORTWING *Hodgsonius phoenicuroides*	82
1681.	WHITETAILED BLUE ROBIN *Cinclidium leucurum*	82
1682.	BLUEFRONTED ROBIN *Cinclidium frontale*	82
1683.	HODGSON'S GRANDALA *Grandala coelicolor*	83
1684.	LITTLE FORKTAIL *Enicurus scouleri*	83
1685.	BLACKBACKED FORKTAIL *Enicurus immaculatus*	83
1686.	SLATYBACKED FORKTAIL *Enicurus schistaceus*	83
1687.	LESCHENAULT'S FORKTAIL *Enicurus leschenaulti*	83
1688.	SPOTTED FORKTAIL *Enicurus maculatus*	83
1690.	PURPLE COCHOA *Cochoa purpurea*	83
1691.	GREEN COCHOA *Cochoa viridis*	83
1692.	BROWN ROCK CHAT *Cercomela fusca*	82
1693.	STOLICZKA'S BUSH CHAT *Saxicola macrorhyncha*	84
1694.	HODGSON'S BUSH CHAT *Saxicola insignis*	84
1696.	Ssp. *przewalskii* of 1697	84
1697.	STONE CHAT *Saxicola torquata*	84
1699.	WHITETAILED STONE CHAT *Saxicola leucura*	84
1700.	PIED BUSH CHAT *Saxicola caprata*	84
1704.	JERDON'S BUSH CHAT *Saxicola jerdoni*	84
1705.	DARK-GREY BUSH CHAT *Saxicola ferrea*	84
1706.	ISABELLINE CHAT *Oenanthe isabellina*	84
1707.	REDTAILED CHAT *Oenanthe xanthoprymna*	84

	Plate
1708. WHEATEAR *Oenanthe oenanthe*	84
1710. DESERT WHEATEAR *Oenanthe deserti*	84
1711. BARNES'S CHAT *Oenanthe finschi*	84
1712. PIED CHAT *Oenanthe picata*	84
1713. HOODED CHAT *Oenanthe monacha*	84
1714. HUME'S CHAT *Oenanthe alboniger*	84
1715. PLESCHANKA'S PIED CHAT or WHEATEAR *Oenanthe pleschanka*	84
1716. WHITECAPPED REDSTART or RIVER CHAT *Chaimarrornis leucocephalus*	82
1717. Ssp. *cambaiensis* of 1720	82
1720. INDIAN ROBIN *Saxicoloides fulicata*	82
1722. ROCK THRUSH *Monticola saxatilis*	85
1723. BLUEHEADED ROCK THRUSH *Monticola cinclorhynchus*	85
1724. CHESTNUTBELLIED ROCK THRUSH *Monticola rufiventris*	85
1726. BLUE ROCK THRUSH *Monticola solitarius*	85
1727. CEYLON WHISTLING THRUSH *Myiophonus blighi*	83
1728. MALABAR WHISTLING THRUSH *Myiophonus horsfieldii*	83
1729. BLUE WHISTLING THRUSH *Myiophonus caeruleus*	83
1731. PIED GROUND THRUSH *Zoothera wardii*	86
1732. SIBERIAN GROUND THRUSH *Zoothera sibirica*	86
1733. ORANGEHEADED GROUND THRUSH *Zoothera citrina*	85
1734. Ssp. *cyanotus* of 1733	85
1737. SPOTTEDWINGED GROUND THRUSH *Zoothera spiloptera*	86
1739. PLAINBACKED MOUNTAIN THRUSH *Zoothera mollissima*	86
1740. LONGTAILED MOUNTAIN THRUSH *Zoothera dixoni*	86
1741. GOLDEN, or SMALLBILLED, MOUNTAIN THRUSH *Zoothera dauma*	86
1745. LARGE BROWN THRUSH *Zoothera monticola*	86
1746. LESSER BROWN THRUSH *Zoothera marginata*	86
1747. BLACKBREASTED THRUSH *Turdus dissimilis*	86
1748. TICKELL'S THRUSH *Turdus unicolor*	85
1749. WHITECOLLARED BLACKBIRD *Turdus albocinctus*	85
1750. GREYWINGED BLACKBIRD *Turdus boulboul*	85

	Plate
1752. BLACKBIRD *Turdus merula maximus*	85
1753. BLACKBIRD *Turdus merula nigropileus*	85
1755. BLACKBIRD *Turdus merula simillimus*	85
1757. BLACKBIRD *Turdus merula kinnisii*	85
1758. GREYHEADED THRUSH *Turdus rubrocanus*	85
1759. Ssp. *gouldii* of 1758	85
1760. KESSLER'S THRUSH *Turdus kessleri*	85
1761. FEA'S THRUSH *Turdus feai*	85
1762. DARK THRUSH *Turdus obscurus*	86
1763. BLACKTHROATED THRUSH *Turdus ruficollis atrogularis*	86
1764. REDTHROATED THRUSH *Turuds ruficollis ruficollis*	86
1765. DUSKY THRUSH *Turdus naumanni*	86
1766. FIELDFARE *Turdus pilaris*	86
1767. REDWING *Turdus illiacus*	86
1768. MISTLE THRUSH *Turdus viscivorus*	86
EL. WHITETHROATED ROBIN *Irania gutturalis*	81

Family TROGLODYTIDAE: Wrens

Tiny, skulking terrestrial birds with plumage typically 'pepper-and-salt' patterned in shades with white, buff, and black. Bill slender and medium to long and curved. Legs and feet strong; anterior toes partly adherent; claws long. Wings short and rounded; tail very short to longish. Sexes nearly alike. Food, chiefly insects. Known for their loud, spirited, melodious songs. Nest, in cavities in trees, rocks, buildings, etc., or domed nests built in bushes and trees. Polygamy common in many species.

	Plate
1770. WREN *Troglodytes troglodytes*	75
1771. Ssp. *nipalensis* of 1770	75

Family CINCLIDAE: Dippers

Solitary aquatic birds inhabiting rapid-flowing mountain streams. Body compact and plumage firm and dense. Bill longish, slender, laterally compressed, slightly hooked and notched. Legs and toes long and stout; claws short and strong. Wings short, pointed and concave beneath; tail short, square or rounded. Sexes alike. Food, chiefly aquatic insects and other invertebrates. Walk and 'fly' under water, using the wings for propulsion. Nest, domed, built near water, lined with moss and leaves. Eggs, 4-5.

	Plate
1773. WHITEBREASTED DIPPER *Cinclus cinclus*	69

	Plate
1775. BROWN DIPPER *Cinclus pallasii*	69

Family PRUNELLIDAE: Accentors or 'Hedge Sparrows'

Small, terrestrial sparrow-like birds. Plumage black, brown, grey or buff, streaked above and plain or streaked below. Bill slender and finely pointed. Legs and feet strong. Wings short and rounded to long and pointed. Sexes alike or nearly so. Food, chiefly insects in summer; fruits and berries in winter. Nest, neat and cup-shaped, built in trees or bushes or in a rock crevice. Eggs, 3-5.

	Plate
1777. ALPINE ACCENTOR *Prunella collaris*	100
1780. ALTAI ACCENTOR *Prunella himalayana*	100
1781. ROBIN ACCENTOR *Prunella rubeculoides*	100
1783. RUFOUSBREASTED ACCENTOR *Prunella strophiata*	100
1784. BROWN ACCENTOR *Prunella fulvescens*	100
1785a. (RADDE'S) BROWN ACCENTOR *Prunella fulvescens ocularis*	100
1787. BLACKTHROATED ACCENTOR *Prunella atrogularis*	100
1787a. SIBERIAN ACCENTOR *Prunella montanella*	100
1788. MAROONBACKED ACCENTOR *Prunella immaculata*	100

Family PARIDAE: Tits or Titmice

Small, restless, active, arboreal woodland birds. Plumage chiefly olive, brown, grey, white or buff. Bill stout, conical or pointed. Legs short and strong. Wings rounded. Food, insects and seeds. Sexes generally alike. Nest, chiefly in tree-holes. Eggs, 4-14. Incubation generally by female.

	Plate
1789. SULTAN TIT *Melanochlora sultanea*	72
1794. GREY TIT *Parus major*	72
1798. WHITEWINGED BLACK TIT *Parus nuchalis*	72
1799. GREENBACKED TIT *Parus monticolus*	72
1800. YELLOWBREASTED BLUE TIT, or AZURE TIT *Parus cyanus flavipectus*	72
1800a. (TIEN SHAN) YELLOWBREASTED BLUE TIT *Parus cyanus tianschanicus*	72
1802. CRESTED BLACK TIT *Parus melanolophus*	72
1803. COAL TIT *Parus ater*	72

		Plate
1804.	BLACK TIT *Parus rufonuchalis*	72
1805.	RUFOUSBELLIED CRESTED TIT *Parus rubidiventris*	72
1808.	BROWN CRESTED TIT *Parus dichrous*	72
1809.	YELLOWCHEEKED TIT *Parus xanthogenys*	72
1812.	BLACKSPOTTED YELLOW TIT *Parus spilonotus*	72
1814.	YELLOWBROWED TIT *Sylviparus modestus*	72
1815.	FIRECAPPED TIT *Cephalopyrus flammiceps*	72
1817.	PENDULINE TIT *Remiz pendulinus*	72
EL.	Ssp. *nigricans* of 1817	72
1818, 1819.	REDHEADED TIT *Aegithalos concinnus*	72
1820.	Ssp. *manipurensis* of 1818	72
1821.	WHITECHEEKED TIT *Aegithalos leucogenys*	72
1822.	WHITETHROATED TIT *Aegithalos niveogularis*	72
1823.	RUFOUSFRONTED TIT *Aegithalos iouschistos*	72
EL.	BLUE-GREY TIT *Parus bokharensis*	72

Family SITTIDAE: Nuthatches, Creepers

Small arboreal climbing birds. Plumage blue, grey with black or brown; usually a dark line and white markings on tail present. Body compact. Bill slender, straight and notched. Tarsi short; toes long; claws laterally compressed. Wings long and pointed; tail short and truncate. Sexes nearly alike. Flight undulating. Climb tree trunks and up and around branches without using tail as support, with jerky hops or obliquely. Food, insects, nuts, seeds. Nest, in lined tree holes or crevices. Eggs, 4-14.

		Plate
1824.	EUROPEAN NUTHATCH *Sitta europaea cashmirensis*	73
1826.	EUROPEAN NUTHATCH *Sitta europaea nagaensis*	73
1830.	CHESTNUTBELLIED NUTHATCH *Sitta castanea*	73
1832.	WHITECHEEKED NUTHATCH *Sitta leucopsis*	73
1834.	WHITETAILED NUTHATCH *Sitta himalayensis*	73
1836.	ROCK NUTHATCH *Sitta tephronota*	73
1837.	BEAUTIFUL NUTHATCH *Sitta formosa*	73
1838.	VELVETFRONTED NUTHATCH *Sitta frontalis*	73
1839.	WALL CREEPER *Tichodroma muraria*	73
1841.	SPOTTED GREY CREEPER *Salpornis spilonotos*	73

Family CERTHIIDAE: Tree Creepers

Small arboreal birds with plumage chiefly brown to black above and white, grey or buff below. Bill slender, laterally compressed and downcurved. Toes and claws long. Wings rounded; tail longish, stiff and pointed. Sexes nearly alike. Climb tree trunks and boughs in the manner of woodpeckers, using the tail as a support. Flight undulating and not sustained. Food, chiefly tiny insects lurking in the bark. Nest, in holes or crevices in tree trunks. Eggs, 3-9.

	Plate
1842. TREE CREEPER *Certhia familiaris*	73
1847. HIMALAYAN TREE CREEPER *Certhia himalayana*	73
1849. SIKKIM TREE CREEPER *Certhia discolor*	73
1851. NEPAL TREE CREEPER *Certhia nipalensis*	73

Family MOTACILLIDAE: Pipits and Wagtails

Slender-bodied terrestrial birds. Plumage black, grey, olive, yellow or brown. Bill slender and pointed. Toes long; hind toe generally elongated. Wings pointed; tail long, constantly 'wagged' vertically. Food, chiefly tiny insects and other invertebrates, living near or in the grass. Many species migratory. Nest, open, cup-shaped, generally on the ground. Eggs, 3-7.

	Plate
1852. INDIAN TREE PIPIT *Anthus hodgsoni*	95
1854. TREE PIPIT *Anthus trivialis*	95
1856. MEADOW PIPIT *Anthus pratensis*	95
1858. PADDYFIELD PIPIT *Anthus novaeseelandiae*	95
1859. Ssp. *richardi* of 1858	95
1861. TAWNY PIPIT *Anthus campestris*	95
1864. REDTHROATED PIPIT *Anthus cervinus*	95
1865. VINACEOUSBREASTED PIPIT *Anthus roseatus*	95
1868. BROWN ROCK PIPIT *Anthus similis*	95
1870. NILGIRI PIPIT *Anthus nilghiriensis*	95
1871. WATER PIPIT or ALPINE PIPIT *Anthus spinoletta*	95
1873. UPLAND PIPIT *Anthus sylvanus*	95
1874. FOREST WAGTAIL *Motacilla indica*	95
1876. YELLOW WAGTAIL *Motacilla flava*	95
1878. Ssp. *melanogrisea* of 1876	95
1883. YELLOWHEADED WAGTAIL *Motacilla citreola*	95
1884. GREY WAGTAIL *Motacilla cinerea*	95
1885, 1886. PIED, or WHITE, WAGTAIL *Motacilla alba*	95
1891. LARGE PIED WAGTAIL *Motacilla maderaspatensis*	95

Family DICAEIDAE: Flowerpeckers

Small, restless, active arboreal birds. In some species both sexes dull-coloured;. in others male bright plumaged. Bill shortish, thin and curved or stout. Legs short. Wings long; tail short. Constantly flit among tree-tops, uttering sharp call notes. Food, insects, nectar and berries particularly mistletoe. Some species important flower pollinators. Nest, normally purse-shaped, of soft fibres etc. pendant from a branch. Eggs, 1-5.

	Plate
1892. THICKBILLED FLOWERPECKER *Dicaeum agile*	98
1895. YELLOWVENTED FLOWERPECKER *Dicaeum chrysorrheum*	98
1896. YELLOWBELLIED FLOWERPECKER *Dicaeum melanoxanthum*	98
1897. LEGGE'S FLOWERPECKER *Dicaeum vincens*	98
1898. ORANGEBELLIED FLOWERPECKER *Dicaeum trigonostigma*	98
1899. TICKELL'S FLOWERPECKER *Dicaeum erythrorhynchos*	98
1902. PLAINCOLOURED FLOWERPECKER *Dicaeum concolor*	98
1904. SCARLETBACKED FLOWERPECKER *Dicaeum cruentatum*	98
1905. FIREBREASTED FLOWERPECKER *Dicaeum ignipectus*	98

Family NECTARINIIDAE: Sunbirds, Spiderhunters

Small, active arboreal 'flower-birds'. Sexes dimorphic. Males generally glistening metallic red, yellow, green, blue, purple and black in combinations; females generally dull coloured. Bill long, slender, curved and very finely serrate. Tongue long and tubular (suctorial). Legs short and strong; claws sharp. Wings short and rounded; tail short and truncate to long and pointed. Food, flower-nectar and insects. Nest, typically purse-shaped, pendant, often with a porch overhanging the lateral entrance. Eggs, 1-3.

	Plate
1906. RUBYCHEEK *Anthreptes singalensis*	97
1908. PURPLERUMPED SUNBIRD *Nectarinia zeylonica*	97
1909. SMALL SUNBIRD *Nectarinia minima*	97
1910. VAN HASSELT'S SUNBIRD *Nectarinia sperata*	97
1912. LOTEN'S SUNBIRD *Nectarinia lotenia*	97
1913. OLIVEBACKED SUNBIRD *Nectarinia jugularis*	97
1917. PURPLE SUNBIRD *Nectarinia asiatica*	97
1919. MRS GOULD'S SUNBIRD *Aethopyga gouldiae*	97

		Plate
1923.	NEPAL YELLOWBACKED SUNBIRD *Aethopyga nipalensis*	97
1925.	BLACKBREASTED SUNBIRD *Aethopyga saturata*	97
1927.	YELLOWBACKED SUNBIRD *Aethopyga siparaja*	97
1930.	FIRETAILED SUNBIRD *Aethopyga ignicauda*	97
1931.	LITTLE SPIDERHUNTER *Arachnothera longirostris*	97
1932.	STREAKED SPIDERHUNTER *Arachnothera magna*	97

Family ZOSTEROPIDAE: White-eyes

Gregarious, active, restless arboreal birds. Plumage typically olive-green above and yellow and white below. Conspicuous white eye-ring or 'spectacle' present. Bill slender, pointed and slightly curved. Legs short and strong. Wings pointed; tail truncate. Sexes alike. Food, insects, fruit and nectar. Voice, plaintive jingling notes; song, sometimes a far-carrying warble. Nest, a deep cup cemented with cobweb, placed in the fork of a twig. Eggs, 2-4.

		Plate
1933.	WHITE-EYE *Zosterops palpebrosa*	97
1937.	CEYLON WHITE-EYE *Zosterops ceylonensis*	97

Family PLOCEIDAE: Weaver Birds

Small sized gregarious, arboreal birds, mainly vegetarian. Plumage, from grey and brown, variously patterned, to mainly shades of red, yellow, purple, blue, green or black in variegated combinations; much white in snow finches. Bill thick and sharp-pointed to massive; not very long. Legs short and stout. Wings short and rounded to long and pointed. Flight strong and direct in most species. Food, chiefly grains, grass seeds, berries, etc., also insects. Nest, variously constructed, of grass etc., including some very elaborate and skilfully woven and pendant. Eggs, 2-8.

Subfamily PASSERINAE: House and Rock Sparrows

		Plate
1938.	HOUSE SPARROW *Passer domesticus*	99
1940.	SPANISH SPARROW *Passer hispaniolensis*	99
1942.	TREE SPARROW *Passer montanus*	99
1945.	SIND JUNGLE SPARROW *Passer pyrrhonotus*	99
1946.	CINNAMON TREE SPARROW *Passer rutilans*	99
1947a.	SCRUB SPARROW, DEAD SEA SPARROW *Passer moabiticus*	99
1949.	YELLOWTHROATED SPARROW *Petronia xanthocollis*	99

		Plate
1950.	ROCK SPARROW *Petronia petronia*	99
1951.	SNOW FINCH *Montifringilla nivalis*	100
1952.	TIBET SNOW FINCH *Montifringilla adamsi*	100
1953.	MANDELLI'S SNOW FINCH *Montifringilla taczanowskii*	100
1954.	REDNECKED SNOW FINCH *Montifringilla ruficollis*	100
1955.	BLANFORD'S SNOW FINCH *Montifringilla blanfordi*	100
1956.	PERE DAVID'S SNOW FINCH *Montifringilla davidiana*	100
EL.	SAXAUL SPARROW *Passer ammodendri*	99
EL.	BARTAILED SNOW FINCH *Montifringilla theresae*	100

Subfamily PLOCEINAE: Weaver Birds, Bayas

1957.	BAYA *Ploceus philippinus*	99
1959.	Ssp. *burmanicus* of 1957	99
1960.	FINN'S BAYA *Ploceus megarhynchus*	99
1961.	BLACKTHROATED WEAVER BIRD *Ploceus benghalensis*	99
1962.	STREAKED WEAVER BIRD *Ploceus manyar*	99

Subfamily ESTRILDINAE: Avadavat, Munias

1964.	RED MUNIA, or AVADAVAT *Estrilda amandava*	98
1965.	GREEN MUNIA *Estrilda formosa*	98
1966.	COMMON SILVERBILL, WHITETHROATED MUNIA *Lonchura malabarica*	98
1968.	WHITEBACKED MUNIA *Lonchura striata*	98
1971.	Ssp. *jerdoni* of 1973	98
1973.	RUFOUSBELLIED MUNIA *Lonchura kelaarti*	98
1974.	NUTMEG MANNIKIN, SPOTTED MUNIA *Lonchura punctulata*	98
1977.	Ssp. *atricapilla* of 1978	98
1978.	BLACKHEADED MUNIA *Lonchura malacca*	98
1978a.	JAVA SPARROW *Padda oryzivora*	98

Family FRINGILLIDAE: Finches

Seed-eating arboreal or terrestrial birds. Plumage, from cryptically patterned grey and brown to bold combinations of yellow, red, purple, blue, green, black, and white. Bill typically short, conical, thick to very massive. Wings short and rounded to long and pointed. Sexes usually dimorphic. Nest, cup-shaped and compact; of grass, wool, tow, etc. Eggs, 2-6.

Subfamily FRINGILLINAE: Chaffinch

	Plate
1979 CHAFFINCH *Fringilla coelebs*	101
1980. BRAMBLING *Fringilla montifringilla*	101

Subfamily CARDUELINAE: Rosefinches and Allies

1981. HAWFINCH *Coccothraustes coccothraustes*	104
1982. BLACK-AND-WHITE GROSBEAK *Coccothraustes icterioides*	104
1983. ALLIED GROSBEAK *Coccothraustes affinis*	104
1985. WHITEWINGED GROSBEAK *Coccothraustes carnipes*	104
1986. SPOTTEDWINGED GROSBEAK *Coccothraustes melanozanthos*	104
1989. GOLDFINCH *Carduelis carduelis*	101
1990. HIMALAYAN GREENFINCH *Carduelis spinoides*	101
1993. TIBETAN SISKIN *Serinus thibetanus*	101
1994. LINNET *Acanthis cannabina*	101
1995, 1996. TWITE *Acanthis flavirostris*	101
1997. REDBROWED FINCH *Callacanthis burtoni*	104
1998. GOLDFRONTED FINCH *Serinus pusillus*	101
2000. HODGSON'S MOUNTAIN FINCH *Leucosticte nemoricola*	100
2003. BRANDT'S MOUNTAIN FINCH *Leucosticte brandti*	100
2006. TRUMPETER BULLFINCH *Carpodacus githagineus*	101
2007. MONGOLIAN TRUMPETER BULLFINCH *Carpodacus mongolicus*	101
2008. LICHTENSTEIN'S DESERT FINCH *Rhodospiza obsoleta*	101
2009. CRIMSONWINGED DESERT FINCH *Callacanthis sanguinea*	101
2013. COMMON ROSEFINCH, SCARLET GROSBEAK *Carpodacus erythrinus*	102
2015. NEPAL ROSEFINCH *Carpodacus nipalensis*	102
2016. BLANFORD'S ROSEFINCH *Carpodacus rubescens*	102
2017. PINKBROWED ROSEFINCH *Carpodacus rhodochrous*	102
2017a. VINACEOUS ROSEFINCH *Carpodacus vinaceus*	102
2018. REDMANTLED ROSEFINCH *Carpodacus rhodochlamys*	102
2019. SPOTTEDWINGED ROSEFINCH *Carpodacus rhodopeplus*	102
2020. Ssp. *blythi* of 2021	102
2021. WHITEBROWED ROSEFINCH *Carpodacus thura*	102

	Plate
2023. BEAUTIFUL ROSEFINCH *Carpodacus pulcherrimus*	102
2025. LARGE ROSEFINCH *Carpodacus edwardsii*	102
2026. THREEBANDED ROSEFINCH *Carpodacus trifasciatus*	102
2027. GREAT ROSEFINCH *Carpodacus rubicilla*	102
2028. EASTERN GREAT ROSEFINCH *Carpodacus rubicilloides*	102
2031. REDBREASTED ROSEFINCH *Carpodacus puniceus*	102
2032. CROSSBILL *Loxia curvirostra*	102
2033. REDHEADED ROSEFINCH *Propyrrhula subhimachala*	102
2034. SCARLET FINCH *Haematospiza sipahi*	104
2035. GOLDHEADED BLACK FINCH *Pyrrhoplectes epauletta*	104
2036. BROWN BULLFINCH *Pyrrhula nipalensis*	104
2038. BEAVAN'S BULLFINCH *Pyrrhula erythaca*	104
2039. REDHEADED BULLFINCH *Pyrrhula erythrocephala*	104
2040. ORANGE BULLFINCH *Pyrrhula aurantiaca*	104
EL. EUROPEAN GREENFINCH *Carduelis chloris*	101
EL. BLACKHEADED GREENFINCH *Carduelis ambigua*	101
EL. PALE ROSEFINCH *Carpodacus synoicus*	101

Family EMBERIZIDAE: Buntings

Small, chiefly terrestrial birds with the plumage brown, grey or olive with combinations of black, white, yellow, green or red. Bill short, conical and finely pointed; edges of mandibles showing a gap midway between gape and tip. Wings short and rounded to long and pointed; tail long, graduated or forked. Legs of medium length; feet large. Food, mainly seeds. Nest, cup-shaped or domed, made of grass, roots, moss, etc., built on the ground or in a bush or tree. Eggs, 1-7.

	Plate
2041. CORN BUNTING *Emberiza calandra*	103
2042. PINE BUNTING *Emberiza leucocephalos*	103
2043. BLACKHEADED BUNTING *Emberiza melanocephala*	103
2044. REDHEADED BUNTING *Emberiza bruniceps*	103
2045. CHESTNUT BUNTING *Emberiza rutila*	103
2046. YELLOWBREASTED BUNTING *Emberiza aureola*	103
2047. BLACKFACED BUNTING *Emberiza spodocephala*	103
2048. WHITECAPPED BUNTING *Emberiza stewarti*	103

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2049. ORTOLAN BUNTING *Emberiza hortulana*	103
2050. GREYNECKED BUNTING *Emberiza buchanani*	103
2051. ROCK BUNTING *Emberiza cia*	103
2055. GREYHEADED BUNTING *Emberiza fucata*	103
2056. LITTLE BUNTING *Emberiza pusilla*	103
2057. STRIOLATED BUNTING *Emberiza striolata*	103
2058. REED BUNTING *Emberiza schoeniclus*	103
2060. CRESTED BUNTING *Melophus lathami*	104
EL. YELLOWHAMMER *Emberiza citrinella*	103

PLATE 1

1. **(1)** BLACKTHROATED DIVER *Gavia arctica* V Duck ± : 65 cm. Single record from Ambala, Punjab.

2. **(2)** REDTHROATED DIVER *Gavia stellata* V Duck ± : 61 cm. Sea coast. Single record from the Makran coast of Pakistan.

3. **(3)** GREAT CRESTED GREBE *Podiceps cristatus* M Duck – : 50 cm. Jheels and littoral waters. Chiefly N Subcontinent.

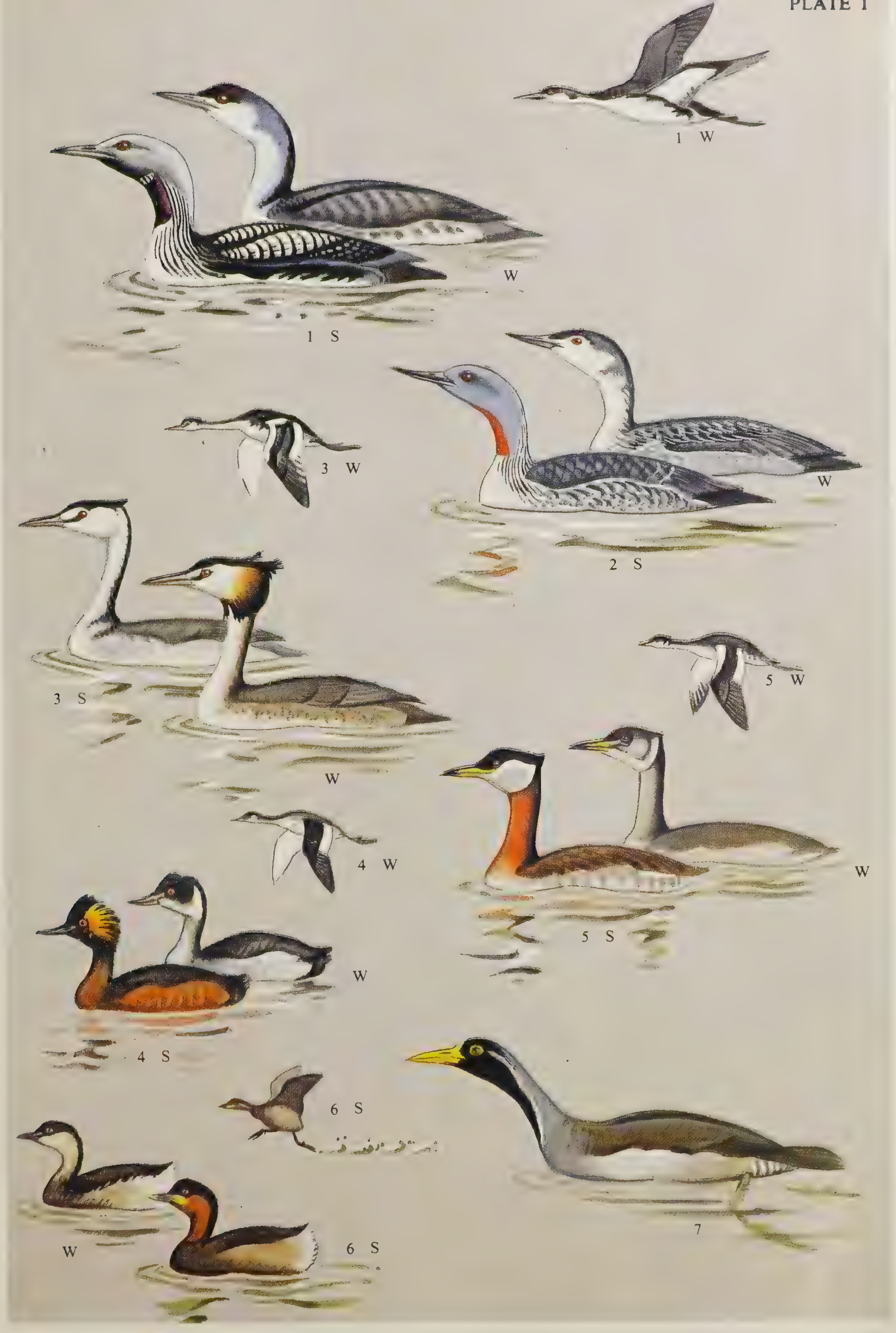
4. **(4)** BLACKNECKED GREBE *Podiceps nigricollis* V Duck – : 33 cm. Lakes. Pakistan, NW India.

4a. **(5)** REDNECKED GREBE *Podiceps griseigena* V Duck – : 42 cm. Observed on Nammal Lake, Punjab Salt Range.

5. **(6)** LITTLE GREBE *Podiceps ruficollis* R Pigeon ± : 23 cm. Village tanks and ponds. Subcontinent. Absent Andamans.

351. **(7)** MASKED FINFOOT *Heliopais personata* R Duck ± : 56 cm. Dense swampy forest. NE India.

PLATE I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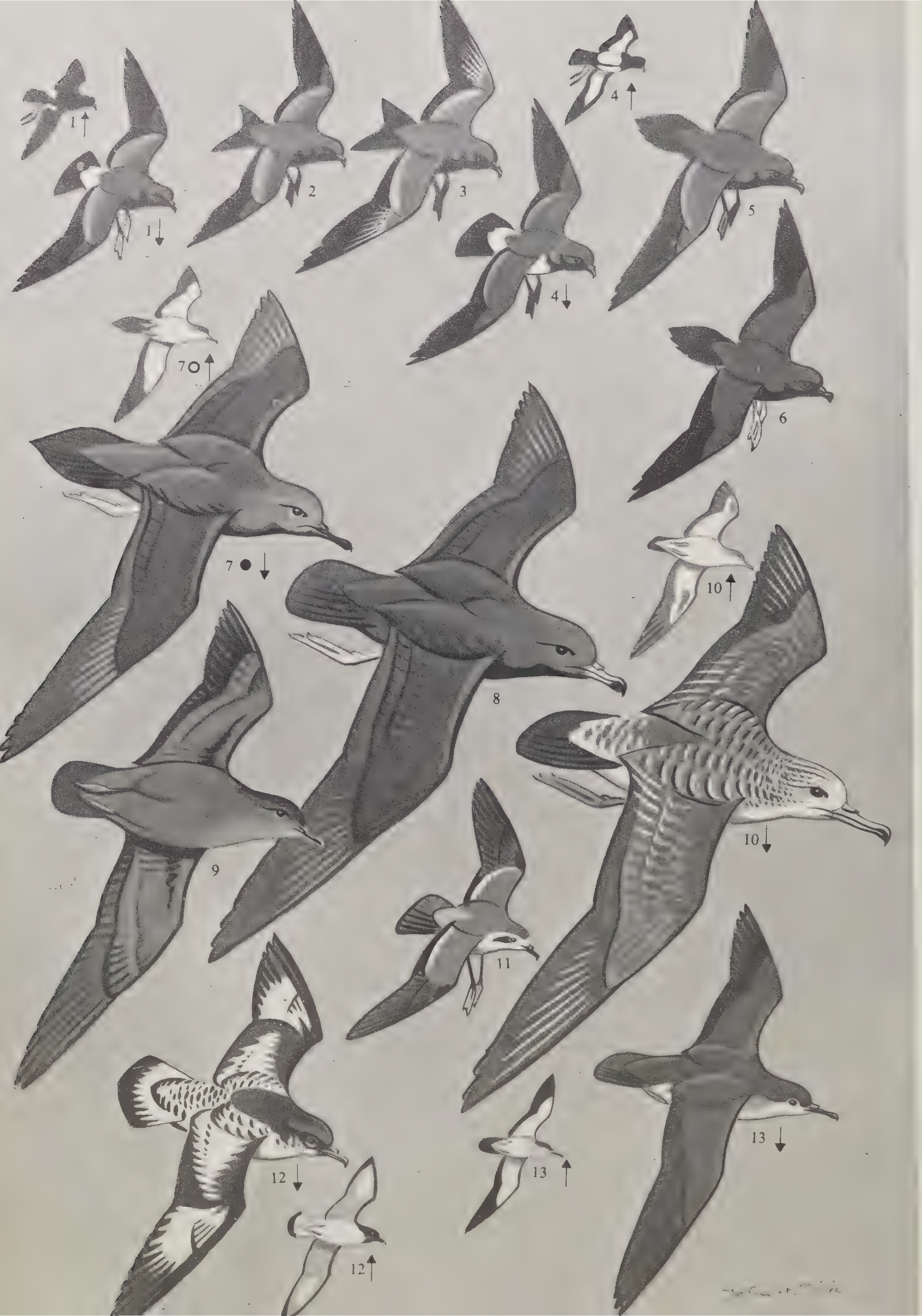
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PLATE 2

6. **(12)** CAPE PETREL *Daption capensis* V Pigeon + : 36 cm. Pelagic. Single record, Sri Lanka.

8. **(8)** PINKFOOTED SHEARWATER *Procellaria carneipes* V Duck – : 50 cm. Pelagic. Two records, Sri Lanka.

9. **(7)** WEDGETAILED SHEARWATER *Procellaria pacifica* R Duck – : 48 cm. Pelagic. Warmer parts of Indian Ocean.

11. **(13)** AUDUBON'S SHEARWATER *Procellaria lherminieri* R Pigeon – : 30 cm. Pelagic. *Breeding:* Maldive Is. Coast of NW India.

13a. **(6)** JOUANIN'S GADFLY PETREL *Bulweria fallax* R Pigeon – : 29-30 cm. Pelagic. Arabian sea, Gulf of Aden.

13b. **(5)** BULWER'S GADFLY PETREL *Bulweria bulwerii* V Pigeon – : 26.5-28 cm. Single record, Maldive Is.

14. **(1)** WILSON'S STORM PETREL *Oceanites oceanicus* R Bulbul ± : 19 cm. Sea coast. Sri Lanka, Maldive Is.

15. **(4)** DUSKYVENTED STORM PETREL *Fregetta tropica* V Bulbul ± : 20 cm. Pelagic. Single record, Bay of Bengal.

16. **(2)** LEACH'S, or FORKTAILED, STORM PETREL *Oceanodroma leucorhoa* V Bulbul ± : 17-19 cm. Pelagic. Two records, Columbo.

EL. **(10)** STREAKED SHEARWATER *Calonestris leucomelas* W Pacific ocean.

EL. **(9)** SHORT-TAILED SHEARWATER *Procellaria tenuirostris* W Pacific ocean.

EL. **(11)** WHITEFACED STORM PETREL *Pelagodroma marina* Atlantic and Australian seas.

EL. **(3)** MATSUDAIRA'S STORM PETREL *Oceanodroma matsudairae* Japan.

PLATE 3

20. **(2)** ROSY or WHITE PELICAN *Pelecanus onocrotalus* RM Vulture + : 183 cm. Large bodies of water. *Breeding:* Kutch *Winter:* Pakistan, N India.

21. **(1)** SPOTTEDBILLED PELICAN *Pelecanus philippensis* RM Vulture + : 152 cm. Large lakes, reservoirs and rivers. Subcontinent.

22. **(3)** DALMATIAN PELICAN *Pelecanus philippensis crispus* M Vulture + : 183 cm. N India, Pakistan, Bangladesh.

31. **(5)** LESSER FRIGATE BIRD *Fregata minor* V Kite + : 87-102 cm. Pelagic. Recorded, Kerala, Sri Lanka.

32. **(4)** LEAST FRIGATE BIRD *Fregata ariel* R Kite + : 80 cm. Pelagic. Maldive Is. *(breeding).*

73. **(7)** FLAMINGO *Phoenicopterus roseus* RM Vulture + : 140 cm. Brackish lakes and lagoons, sea coast, estuaries, mudflats. Subcontinent. *Breeding:* Great Rann of Kutch.

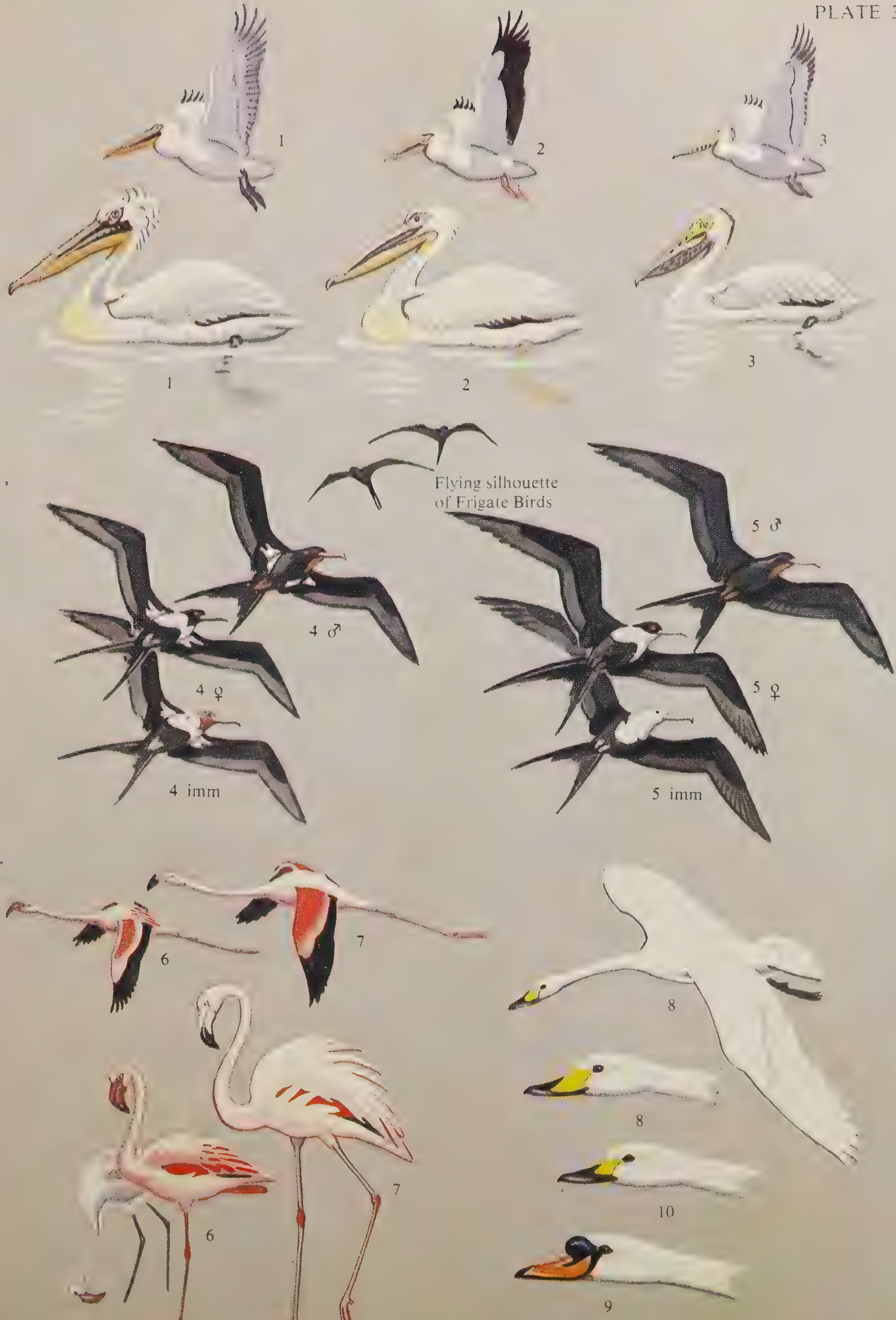
74. **(6)** LESSER FLAMINGO *Phoeniconaias minor* RM Duck + : 90-105 cm. Brackish lakes. NW India, Pakistan. *Breeding:* Kutch.

84. **(10)** BEWICK'S SWAN *Cygnus cygnus bewickii* V Vulture + : 122 cm. Lakes. Three records from Pakistan, one from Delhi, one of the eastern subspecies *jankowskii* from Kutch.

86. **(8)** WHOOPER SWAN *Cygnus cygnus* V Vulture + : 152 cm. Large rivers. Less than six records from Pakistan, NW India, Nepal.

87. **(9)** MUTE SWAN *Cygnus olor* V Vulture + : 152 cm. Jheels. A dozen records in all from Pakistan, NW India.

PLATE 3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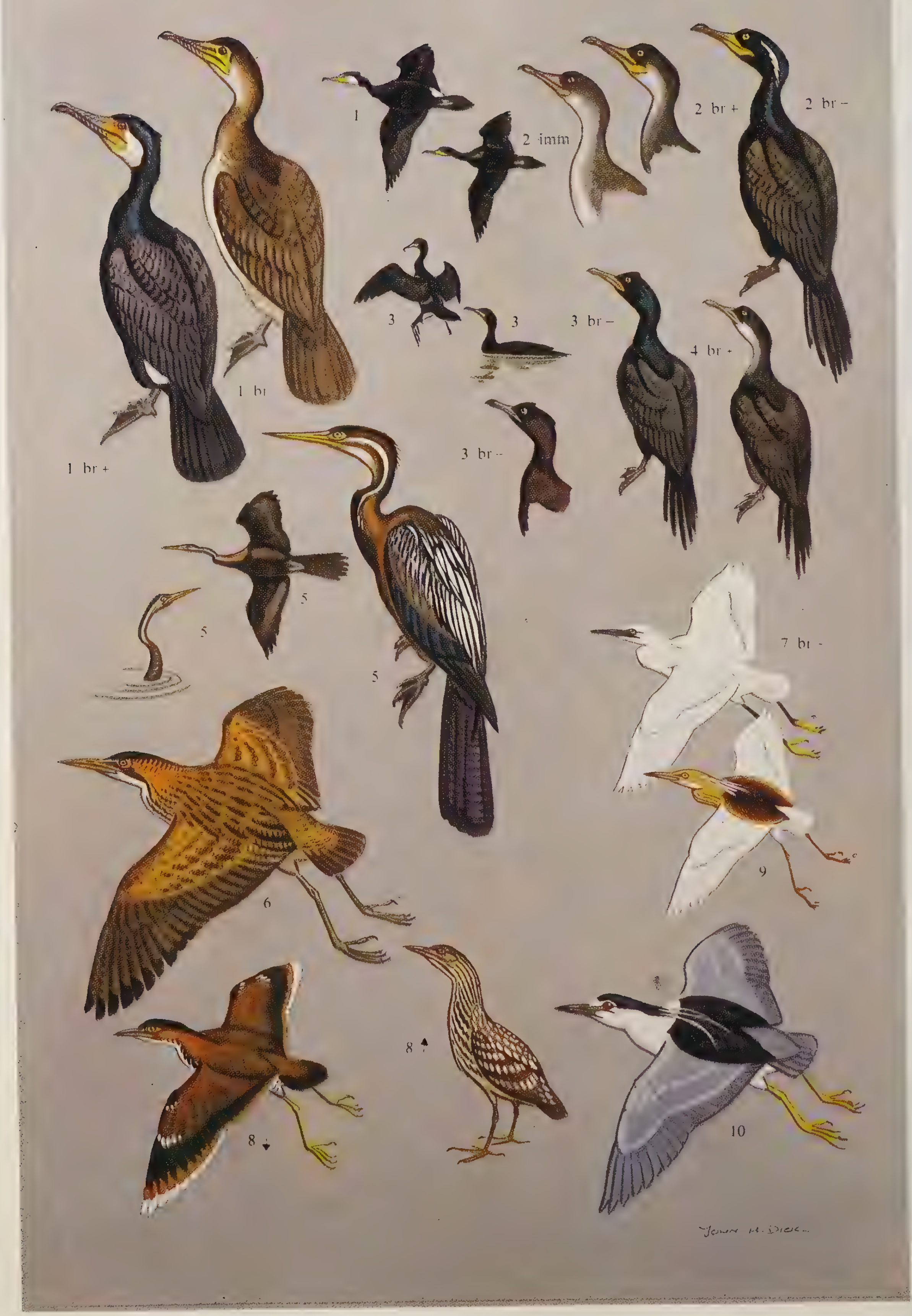
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John H. Dick

PLATE 4

26. **(1)** CORMORANT *Phalacrocorax carbo* RM Duck + : 80 cm. Inland waters and tidal lagoons. Occasionally high-altitude Himalayan lakes up to 3450 m. Subcontinent.

27. **(2)** INDIAN SHAG *Phalacrocorax fuscicollis* RM Duck + : 63 cm. Jheels, rivers, reservoirs and estuaries. Subcontinent. Not Himalayas.

28. **(3)** LITTLE CORMORANT *Phalacrocorax niger* RM Crow + : 51 cm. Lakes, reservoirs, tidal creeks. Subcontinent. Absent in Himalayas and N Pakistan.

28a. **(4)** PYGMY CORMORANT *Phalacrocorax pygmaeus* V Little cormorant – . Single record, Baluchistan.

29. **(5)** DARTER *Anhinga rufa* RM Duck + : 90 cm. Lakes and reservoirs. Subcontinent.

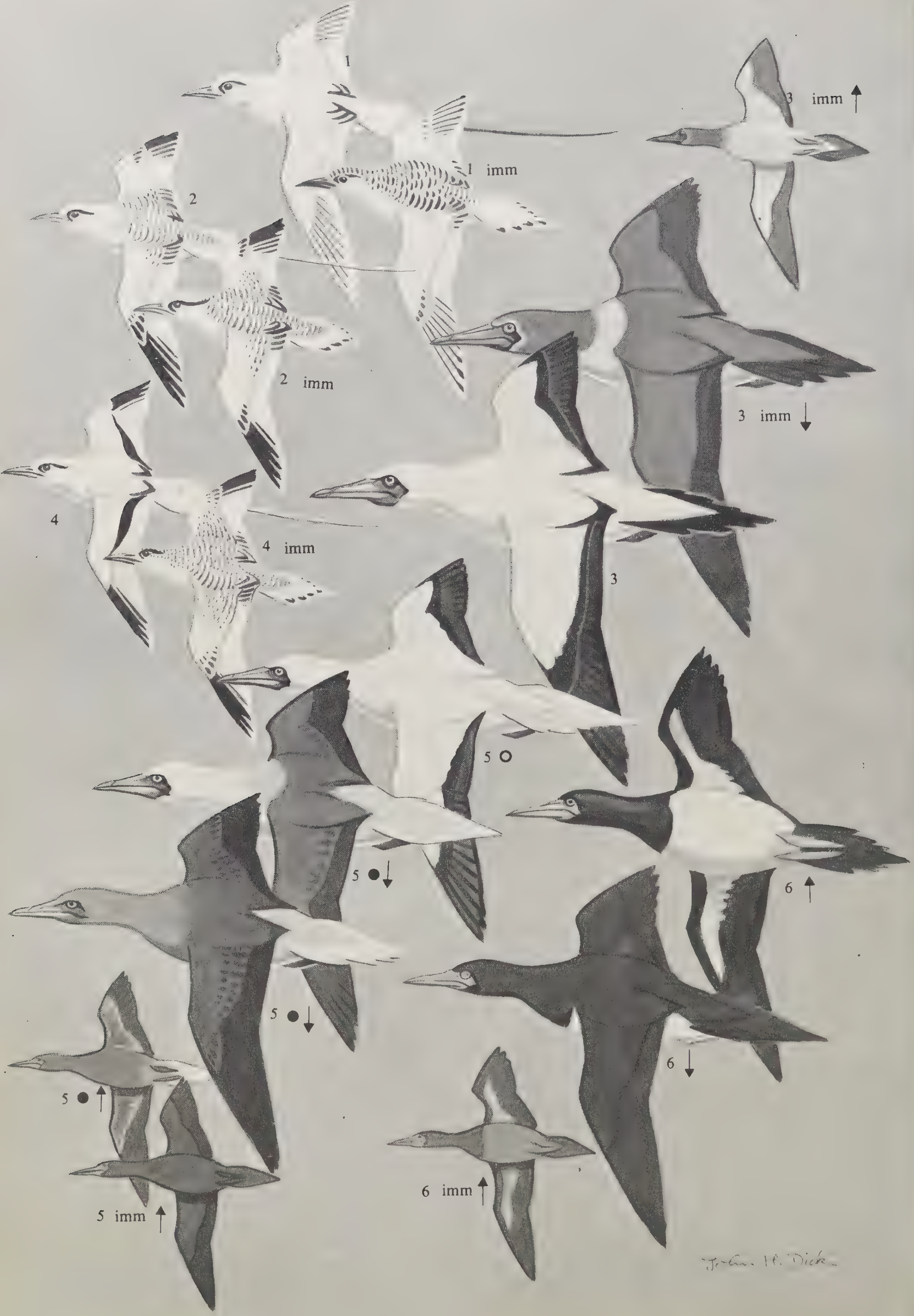
42. **(9)** POND HERON or PADDYBIRD *Ardeola grayii* R Village hen + : 46 cm. Marshes, streams, paddyfields, ponds, etc. Subcontinent.

49. **(7)** LITTLE EGRET *Egretta garzetta* R Village hen + : 63 cm. Marshes, flooded paddyfields, etc. Subcontinent.

52. **(10)** NIGHT HERON *Nycticorax nycticorax* R Village hen + : 58 cm. Inland waters, estuaries, coastal lagoons and backwaters. Subcontinent.

53. **(8)** MALAY or TIGER BITTERN *Gorsachius melanolophus* RM Village hen + : 51 cm. Marshy pockets and streams in tropical evergreen forest. Patchy in Subcontinent. Sri Lanka, Nicobar Is.

59. **(6)** BITTERN *Botaurus stellaris* M Village hen + : 71 cm. Swampy reed-beds. Subcontinent, chiefly northern.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John H. Dick

PLATE 5

17. **(2)** REDBILLED (or SHORT-TAILED) TROPIC-BIRD *Phaethon aethereus* R Tern ±: 40 cm + tail ribbons 30 cm. Pelagic. N Indian Ocean.

18. **(1)** REDTAILED TROPIC-BIRD *Phaethon rubricauda* R Tern ±: 36 cm + tail ribbons 48 cm. Pelagic. Tropical W Indian Ocean.

19. **(4)** LONGTAILED TROPIC-BIRD *Phaethon lepturus* R Tern ±: 38 cm + tail ribbons 45 cm. Pelagic. Maldive Is. (*breeding*).

23. **(3)** MASKED BOOBY *Sula dactylatra* M Duck +: 80 cm. Pelagic. Pakistan. Occasionally W Indian seaboard and Sri Lanka.

24. **(5)** REDFOOTED BOOBY *Sula sula* M Duck –: 41 cm. Pelagic. Lakshadweep Is.

25. **(6)** BROWN BOOBY *Sula leucogaster* M Duck +: 76 cm. Pelagic. Malabar and Sri Lanka coasts, Lakshadweep Is. and Bay of Bengal.

PLATE 6

33. **(3)** GREAT WHITEBELLIED HERON *Ardea insignis* R Vulture + : 127 cm. Swamps, lakes and rivers. NE India, Bhutan, Nepal, Bangladesh and N Burma.

34. **(2)** GIANT HERON *Ardea goliath* V Vulture + : 142-152 cm. Lakes, swamps, estuaries and tidal creeks. Isolated records from Pakistan, Madhya Pradesh, Bengal, Bangladesh and Sri Lanka.

36. **(4)** GREY HERON *Ardea cinerea* RM Vulture + : 98 cm; standing 75 cm. Swamps, estuaries and rocky offshore islets. Subcontinent.

37. **(5)** PURPLE HERON *Ardea purpurea* RM Vulture + : 97 cm; standing 70 cm. Jheels, reedy lakes and rivers. Subcontinent.

38. **(1)** LITTLE GREEN HERON *Ardeola striatus* R Village hen ± : 46 cm. Inland waters and swamps. Subcontinent.

42. **(8)** POND HERON or PADDYBIRD *Ardeola grayii*
See Plate 4

43. **(7)** CHINESE POND HERON *Ardeola bacchus* RM Village hen ± : 52 cm. Inland waters. NE India; Bangladesh to Manipur; Andaman Is.

52. **(14)** NIGHT HERON *Nycticorax nycticorax*
See Plate 4

53. **(15)** MALAY or TIGER BITTERN *Gorsachius melanolophus*
See Plate 4

55. **(11)** LITTLE BITTERN *Ixobrychus minutus* RM Village hen – : 36 cm. Marshes with dense reed-beds. W Pakistan, N India, Nepal and east to Assam. Kashmir up to 1800 m.

56. **(9)** CHESTNUT BITTERN *Ixobrychus cinnamomeus* RM Village hen – : 38 cm. Reed-beds, flooded paddyfields, etc. Rarely coastal backwaters. Subcontinent.

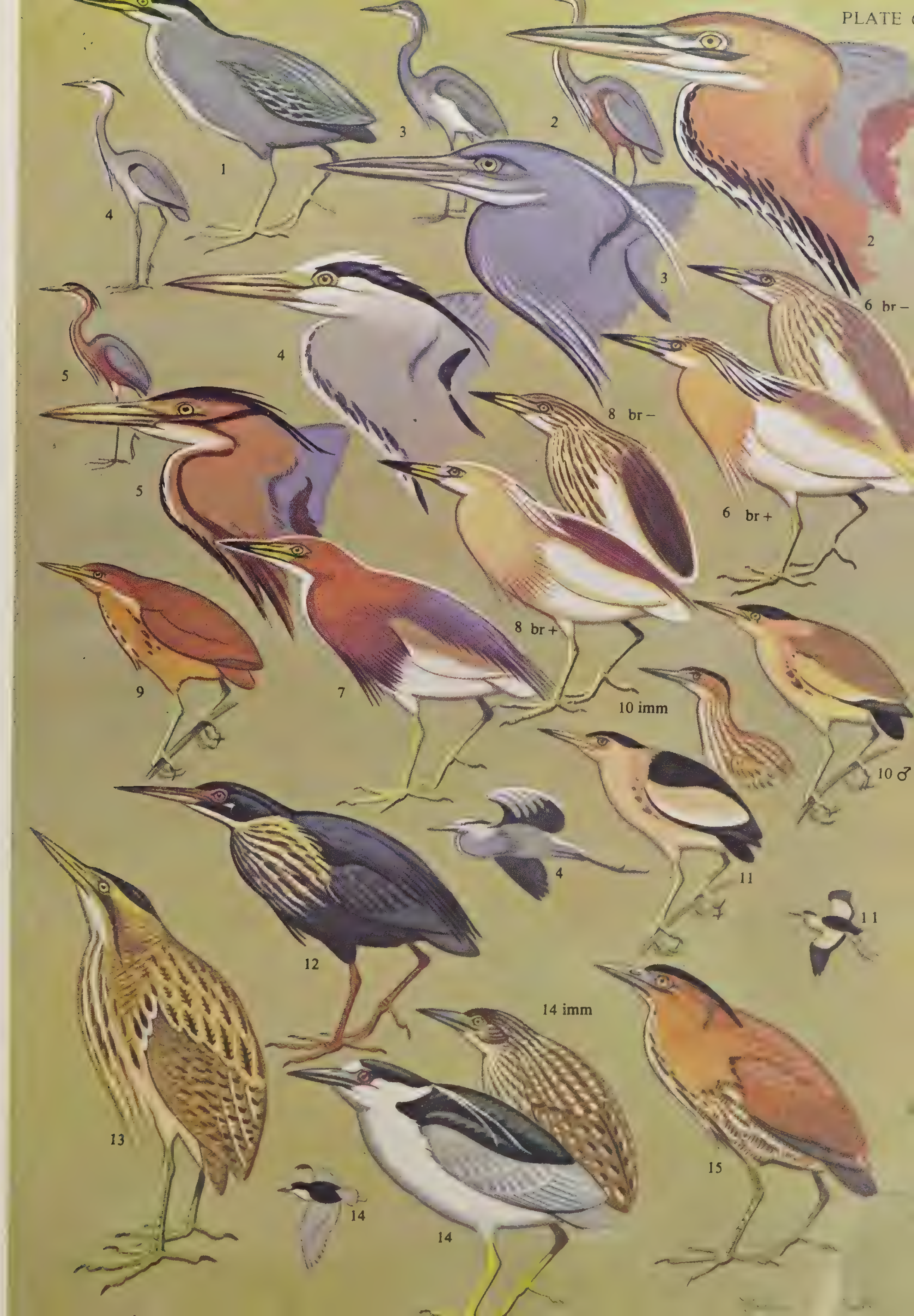
57. **(10)** YELLOW BITTERN *Ixobrychus sinensis* RM Village hen – : 38 cm. Reed-beds, standing paddy, swamps, etc. Subcontinent.

58. **(12)** BLACK BITTERN *Ixobrychus flavicollis* RM Village hen ± : 58 cm. Reedy marshes. Subcontinent up to 1200 m. Absent in Andaman and Nicobar Is.

59. **(13)** BITTERN *Botaurus stellaris*
See Plate 4

EL. **(6)** SQUACCO HERON *Ardeola ralloides* W Asia, Africa.

PLATE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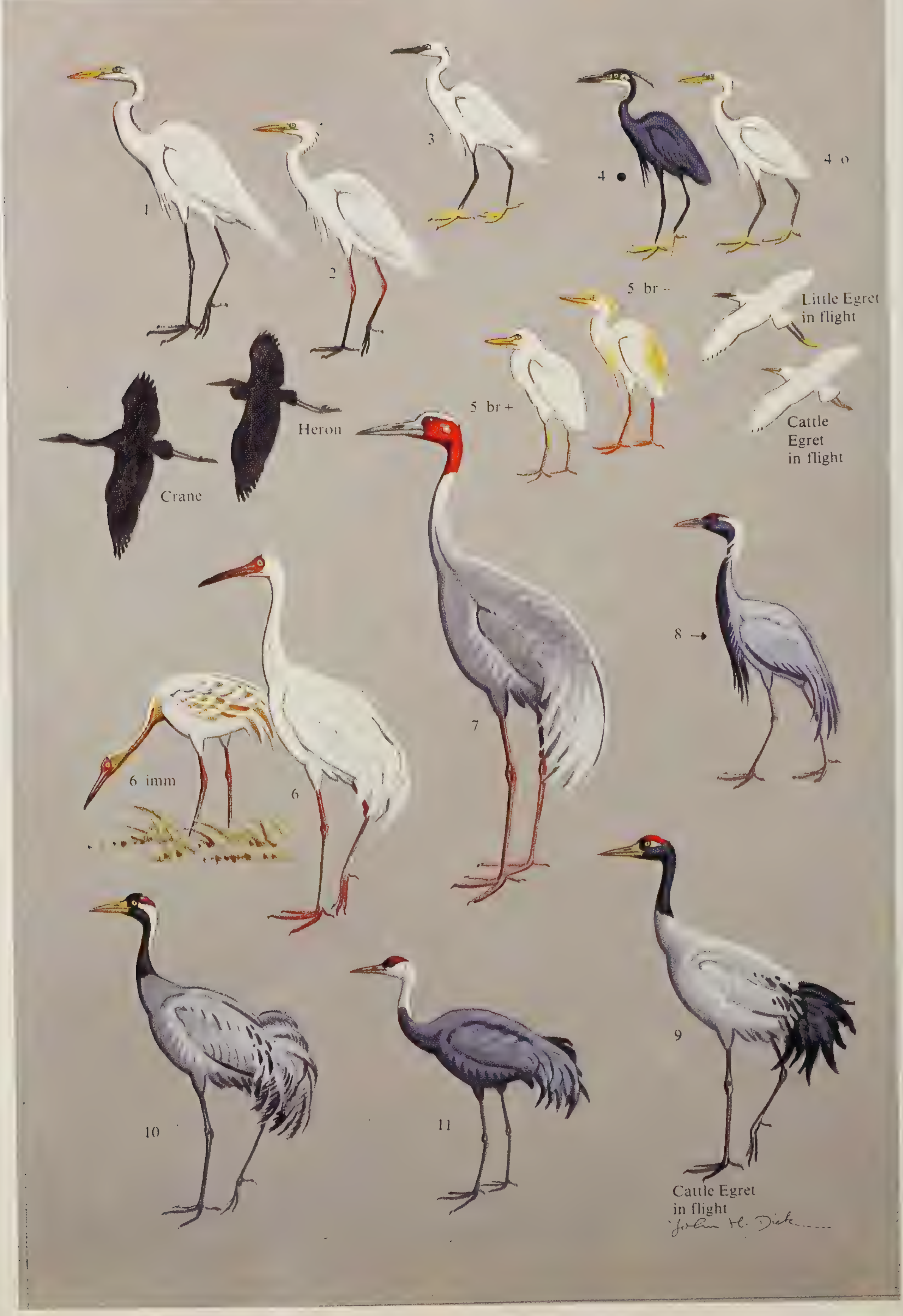
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Cattle Egret in flight
John H. Dick

PLATE 7

44. **(5)** CATTLE EGRET *Bubulcus ibis* RM Village hen ±: 51 cm. Usually by grazing cattle, not necessarily near water. Subcontinent.

46. **(1)** LARGE EGRET *Ardea alba* RM Vulture ±: 91 cm. Marshes, rivers, etc. Subcontinent.

47. **(2)** SMALLER EGRET *Egretta intermedia* RM Village hen +: 80 cm. Marshes, estuaries, swamps. Subcontinent.

49. **(3)** LITTLE EGRET *Egretta garzetta*
See Plate 4

50. **(4)** INDIAN REEF HERON *Egretta gularis* RM Village hen ±: 63 cm. Rocky seashores, tidal lagoons and mudflats, mangrove swamps. Pakistan, W India, Sri Lanka, Lakshadweep Is. Rare on east coast.

320. **(10)** COMMON CRANE *Grus grus* M Vulture ±: standing 140 cm. Cultivated plains, jheels and sandy river-beds. Pakistan and N India, east to Bengal, south to Maharashtra and N Andhra.

321. **(9)** BLACKNECKED CRANE *Grus nigricollis* RM Vulture +: standing 156 cm. Damp fields and marshland. *Breeding:* Ladakh. *Winter:* Bhutan (2000 m and above), Arunachal Pradesh.

322. **(11)** HOODED CRANE *Grus monacha* V Vulture ±: standing 90 cm. Marshes. Single record from N Cachar. Apparently winter visitor in very small numbers to Manipur and Assam.

323. **(7)** SARUS CRANE *Grus antigone* R Vulture +: standing 156 cm. Marshes and cultivation. Pakistan and N India, south to Godavari delta; Assam and Manipur.

325. **(6)** SIBERIAN CRANE *Grus leucogeranus* M Vulture +: standing 140 cm. Jheels and marshes. N Pakistan, Rajasthan, Uttar Pradesh.

326. **(8)** DEMOISELLE CRANE *Anthropoides virgo* M Vulture –: standing 76 cm. Winter crops, paddy stubbles, margins of jheels and tanks. Pakistan, Bangladesh, N India to Assam, and south to Karnataka.

Flight silhouettes
Heron
Crane

PLATE 8

60. **(2)** PAINTED STORK *Mycteria leucocephala* R Vulture ± standing 93 cm. Large marshes. Subcontinent.

61. **(5)** OPENBILL STORK *Anastomus oscitans* R Duck + : 81 cm, standing 68 cm. Lakes and marshes. Subcontinent.

62. **(6)** WHITENECKED STORK *Ciconia episcopus* R Vulture + : standing 106 cm. Flooded grasslands, irrigated fields, marshes in forest, etc. Subcontinent.

63. **(3)** WHITE STORK *Ciconia ciconia* M Vulture + : standing 106 cm. Marshes, moist grassland. Pakistan, NW India, Gangetic Plain, east to Bangladesh and Assam, south decreasingly through the Peninsula.

65. **(4)** BLACK STORK *Ciconia nigra* M Vulture + : standing 106 cm. Marshes and near rivers. Pakistan and N India, south to Deccan.

66. **(1)** BLACKNECKED STORK *Ephippiorhynchus asiaticus* R Vulture + : standing 135 cm. Marshes and large rivers. Subcontinent. Iris ♂ brown, ♀ yellow.

67. **(10)** ADJUTANT *Leptoptilos dubius* RM and nomadic. Vulture + : standing 120-150 cm. Marshes. N India west to Pakistan (Sind) in SW monsoon, south to Deccan.

68. **(12)** LESSER ADJUTANT *Leptoptilos javanicus* RM Vulture + : standing 110-120 cm. Swamps and flooded land. N India and Peninsula (sporadic).

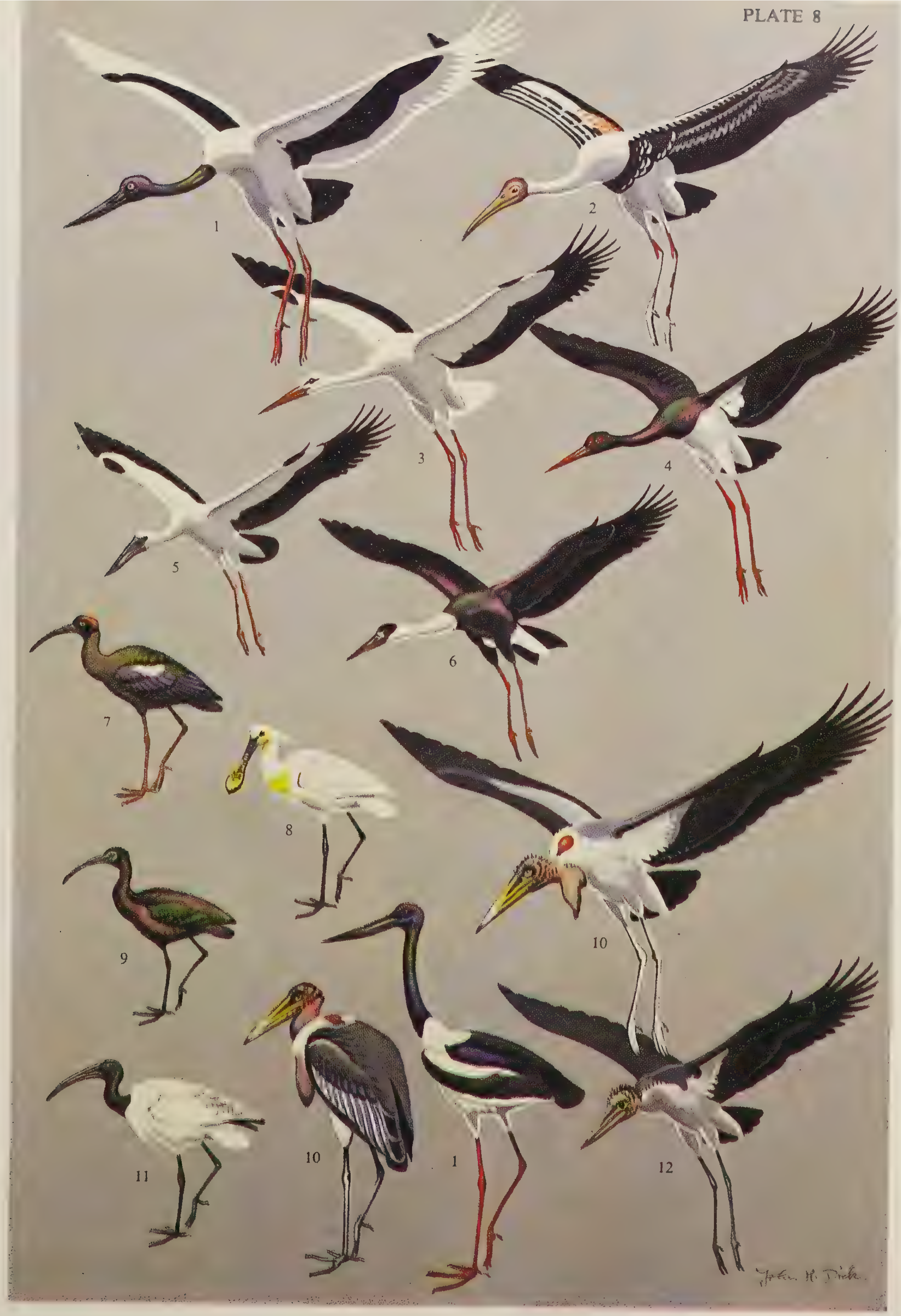
69. **(11)** WHITE IBIS *Threskiornis aethiopica* R Village hen ± : 75 cm. Rivers, marshes and inundated land. Subcontinent.

70. **(7)** BLACK IBIS *Pseudibis papillosa* R Village hen ± : 68 cm. River banks, stubble fields and jheel margins. Pakistan, and India east through Bangladesh to Burma, south to Deccan.

71. **(9)** GLOSSY IBIS *Plegadis falcinellus* RM Village hen ± : 52 cm. Marshes and river banks. Pakistan, and India east through Bangladesh south to Deccan.

72. **(8)** SPOONBILL *Platalea leucorodia* RM Duck ± : standing 60 cm. Marshes and rivers. Subcontinent.

PLATE 8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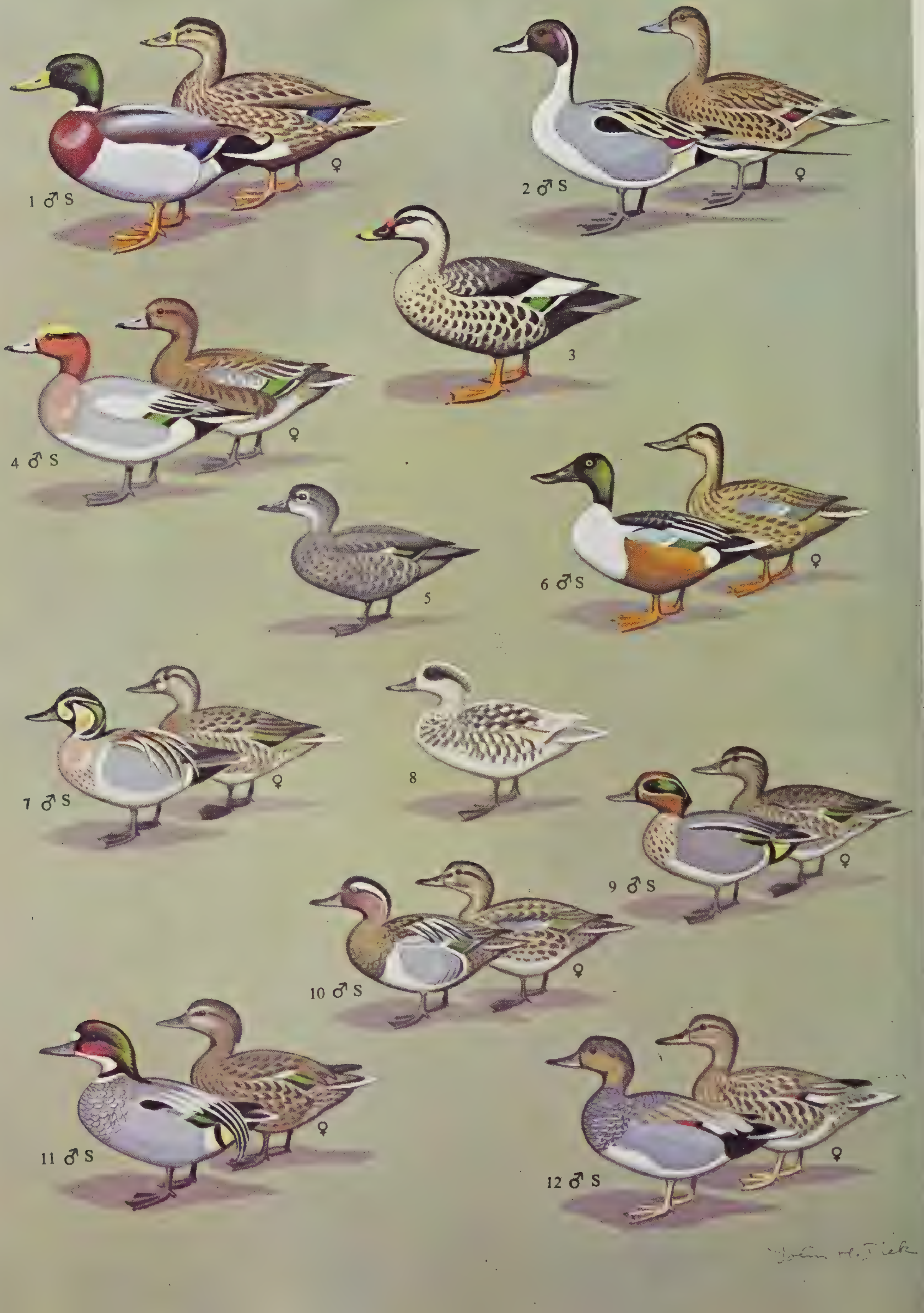
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PLATE 9

92. **(8)** MARBLED TEAL *Marmaronetta angustirostris* RM Duck – : 48 cm. Reedy jheels. *Breeding:* Pakistan. N India east to Assam south to Poona.

93. **(2)** PINTAIL *Anas acuta* M Duck – : 56-74 cm. Reedy jheels, brackish lagoons and estuaries. Subcontinent.

94. **(9)** COMMON TEAL *Anas crecca* M Half-grown Duck ± : 38 cm. Jheels and marshes. Subcontinent.

95. **(7)** BAIKAL TEAL *Anas formosa* V Half-grown Duck + : 40 cm. Pakistan east to Assam and Manipur (a score of records in all).

96. **(5)** GREY TEAL *Anas gibberifrons* R Half-grown Duck + : 43 cm. Swamps and tidal creeks. Andaman Islands.

97. **(3)** SPOTBILL DUCK *Anas poecilorhyncha* RM Duck ± : 61 cm. Jheels and shallow reservoirs. Subcontinent: south to Karnataka. Up to 1800 m in Kashmir.

100. **(1)** MALLARD *Anas platyrhynchos* RM Duck ± : 61 cm. Shallow jheels and marshes. Pakistan, N India, east through Bangladesh south to N Maharashtra.

101. **(12)** GADWALL *Anas strepera* M Duck – : 51 cm. Reedy marshes. Subcontinent; rare in S India.

102. **(11)** FALCATED TEAL *Anas falcata* V Duck – : 51 cm. Jheels. Pakistan, and NE India.

103. **(4)** WIGEON *Anas penelope* M Duck – : 49 cm. Reedy marshes. Pakistan and N India east through Bangladesh, south to Orissa.

104. **(10)** GARGANEY *Anas querquedula* M Duck – : 41 cm. Marshes, reservoirs and lakes. Subcontinent.

105. **(6)** SHOVELLER *Anas clypeata* M Duck – : 51 cm. All types of inland waters. Subcontinent.

PLATE 10

Ducks in flight

92. **(8)** MARBLED TEAL *Marmaronetta angustirostris*
See Plate 9

93. **(2)** PINTAIL *Anas acuta*
See Plate 9

94. **(9)** COMMON TEAL *Anas crecca*
See Plate 9

95. **(7)** BAIKAL TEAL *Anas formosa*
See Plate 9

96. **(5)** GREY TEAL *Anas gibberifrons*
See Plate 9

97. **(3)** SPOTBILL DUCK *Anas poecilorhyncha*
See Plate 9

100. **(1)** MALLARD *Anas platyrhynchos*
See Plate 9

101. **(12)** GADWALL *Anas strepera*
See Plate 9

102. **(11)** FALCATED TEAL *Anas falcata*
See Plate 9

103. **(4)** WIGEON *Anas penelope*
See Plate 9

104. **(10)** GARGANEY *Anas querquedula*
See Plate 9

105. **(6)** SHOVELLER *Anas clypeata*
See Plate 9

PLATE 10

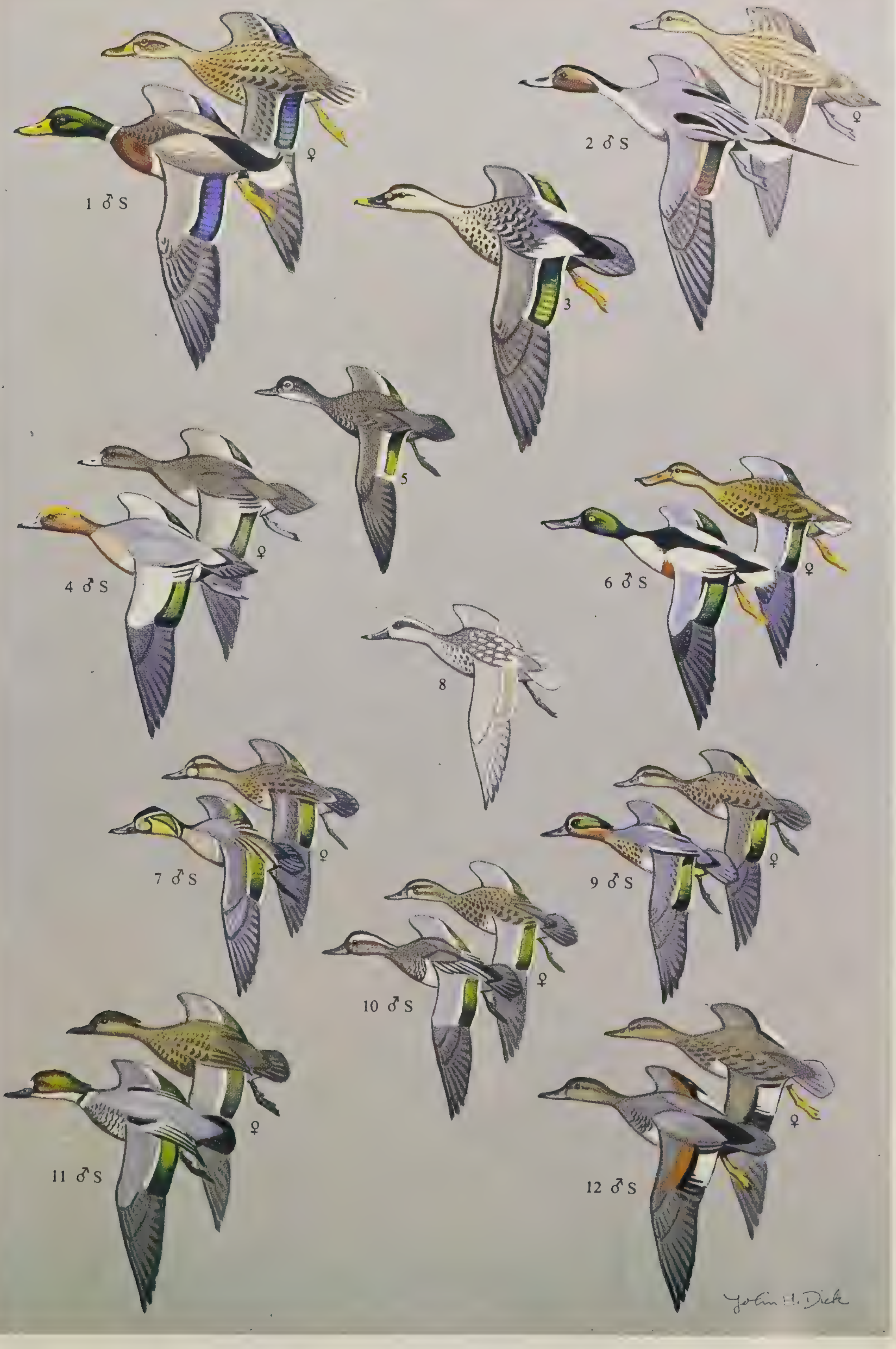
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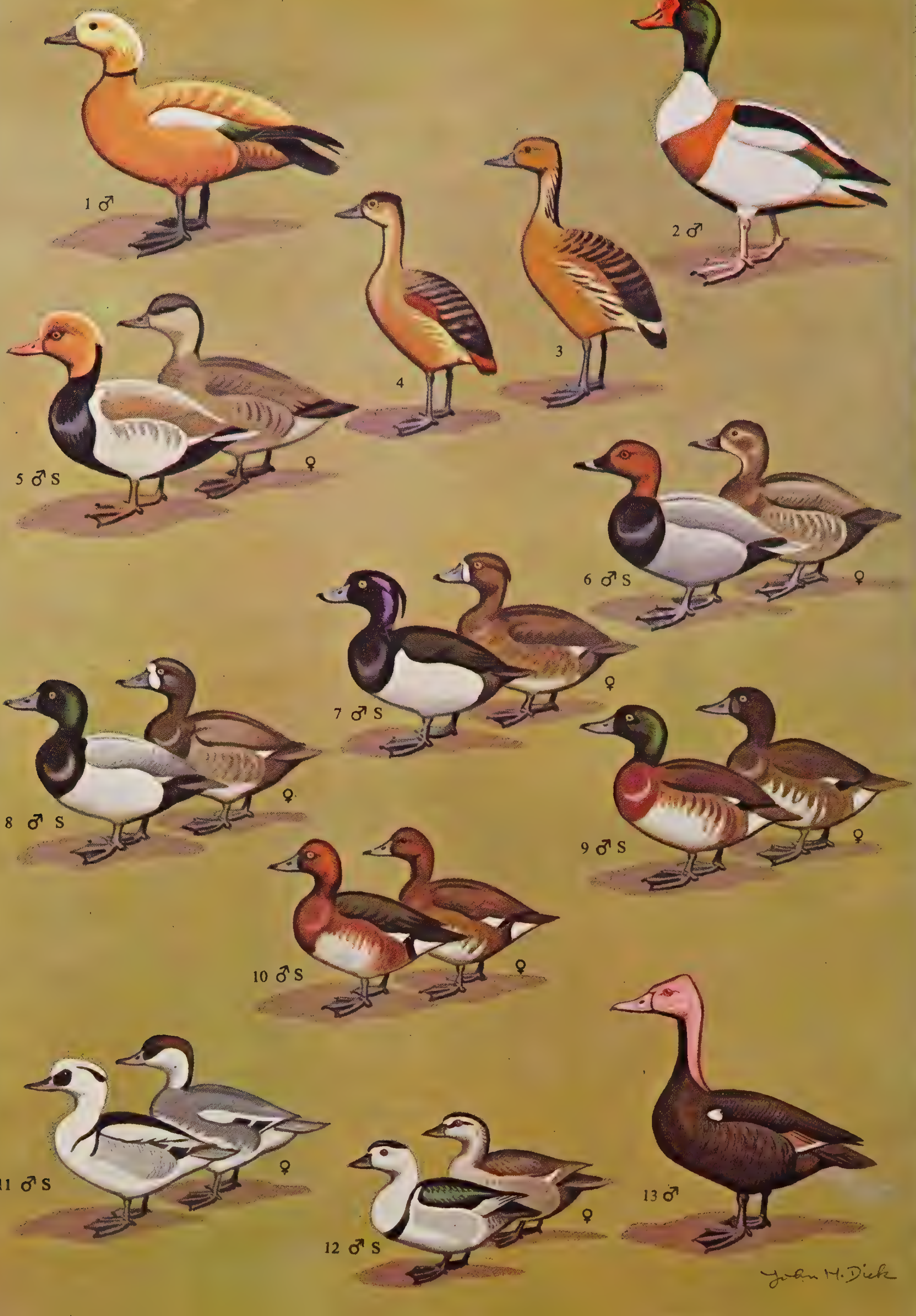
PLATE 11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John H. Dick

PLATE 11

88. **(4)** LESSER WHISTLING TEAL or TREE DUCK *Dendrocygna javanica* R Duck – : 42 cm. (Upper tail-coverts chestnut)' Marshes, reservoirs, reedy ponds. Subcontinent.

89. **(3)** LARGE WHISTLING TEAL *Dendrocygna bicolor* RM Duck – : 51 cm. (Upper tail-coverts white). Reedy jheels and reservoirs. Pakistan, N India south to the Deccan, east to Manipur and Bangladesh. Rare.

90. **(1)** RUDDY SHELDUCK *Tadorna ferruginea* RM Duck + : 66 cm. Lakes and rivers. *Breeding:* Ladakh. Subcontinent; rare in S India.

91. **(2)** COMMON SHELDUCK *Tadorna tadorna* M Duck ±: 61 cm. Lakes and large rivers. Pakistan, India, Nepal, south to the Deccan and Orissa, east through Bangladesh to Burma.

106. **(13)** PINKHEADED DUCK *Rhodonessa caryophyllacea* Extinct. Duck ±: 60 cm. Jheels and swampy lowland grass jungles. Formerly resident from Bihar to Assam, Manipur and Orissa. Last reliable wild record, 1935.

107. **(5)** REDCRESTED POCHARD *Netta rufina* M Duck – : 54 cm. Large jheels and reservoirs. Pakistan and NW India, decreasingly eastward to Assam, and southward to Tamil Nadu.

108. **(6)** COMMON POCHARD *Aythya ferina* M Duck – : 48 cm. Open jheels and reservoirs. Pakistan and NW India, decreasingly eastward to Bangladesh, Assam and associated states, and southward to Karnataka.

109. **(10)** WHITE-EYED POCHARD or FERRUGINOUS DUCK *Aythya nyroca* RM Duck – : 41 cm. Jheels and reservoirs. *Breeding:* Kashmir and Ladakh. Pakistan and NW India.

110. **(9)** BAER'S POCHARD *Aythya baeri* M Duck – : 46 cm. Jheels and reservoirs. Assam and associated states, Manipur, Bangladesh, Bihar and Bengal.

111. **(7)** TUFTED DUCK *Aythya fuligula* M Duck – : 43 cm. Open jheels and reservoirs. Pakistan, Nepal and N India, east through Bangladesh to Manipur, south decreasingly to Karnataka.

112. **(8)** SCAUP DUCK *Aythya marila* V Duck – : 46 cm. In India on freshwater lakes; elsewhere largely a sea duck. Pakistan, N India south to Maharashtra, east through Bangladesh to Burma.

114. **(12)** COTTON TEAL or QUACKY-DUCK *Nettapus coromandelianus* R Partridge ±: 33 cm. Jheels and ponds. Subcontinent.

119. **(11)** SMEW *Mergus albellus* M Duck – : 46 cm. Clear Himalayan foothill streams. Pakistan, Nepal terai and N India east to Assam and south to Gujarat and Orissa. Rare.

PLATE 12

75. **(7)** SIBERIAN REDBREASTED GOOSE *Branta ruficollis* V Duck ± : 61 cm. Three records: Madhya Pradesh, Assam.

76. **(9)** BEAN GOOSE *Anser fabalis* V (?) Duck + : 76 cm. One possible sighting, Arunachal Pradesh.

79. **(10)** WHITEFRONTED GOOSE *Anser albifrons* M Duck + : 68 cm. No eye-ring. Large lakes. Pakistan, and N India east to Assam and Manipur. Southernmost record: Orissa.

80. **(8)** LESSER WHITEFRONTED GOOSE *Anser erythropus* M Duck ± : 53 cm. Yellow eye-ring. Jheels and lakes. Pakistan, Kashmir and N India east to Assam; Maharashtra.

81. **(11)** GREYLAG GOOSE *Anser anser* M Duck + : 81 cm. Large jheels and lakes. Pakistan, N India to Manipur, south to Chilka lake, Orissa.

82. **(12)** BARHEADED GOOSE *Anser indicus* RM Duck + : 75 cm. Large jheels and rivers. Pakistan, N India east through Bangladesh to Burma, south to Karnataka. *Breeding:* Ladakh.

115. **(5)** COMB DUCK *Sarkidiornis melanotos* R Duck + : 76 cm. Reedy tanks in well-wooded plains. Pakistan and India from Nepal terai south to Karnataka and east through Bangladesh to Burma. Formerly resident in Sri Lanka, now believed extinct.

116. **(6)** WHITEWINGED WOOD DUCK *Cairina scutulata* R Duck + : 81 cm. Secluded pools, and marshes in dense forest. Formerly resident in Bangladesh, Assam, Arunachal Pradesh and Manipur; now probably confined chiefly to Arunachal Pradesh.

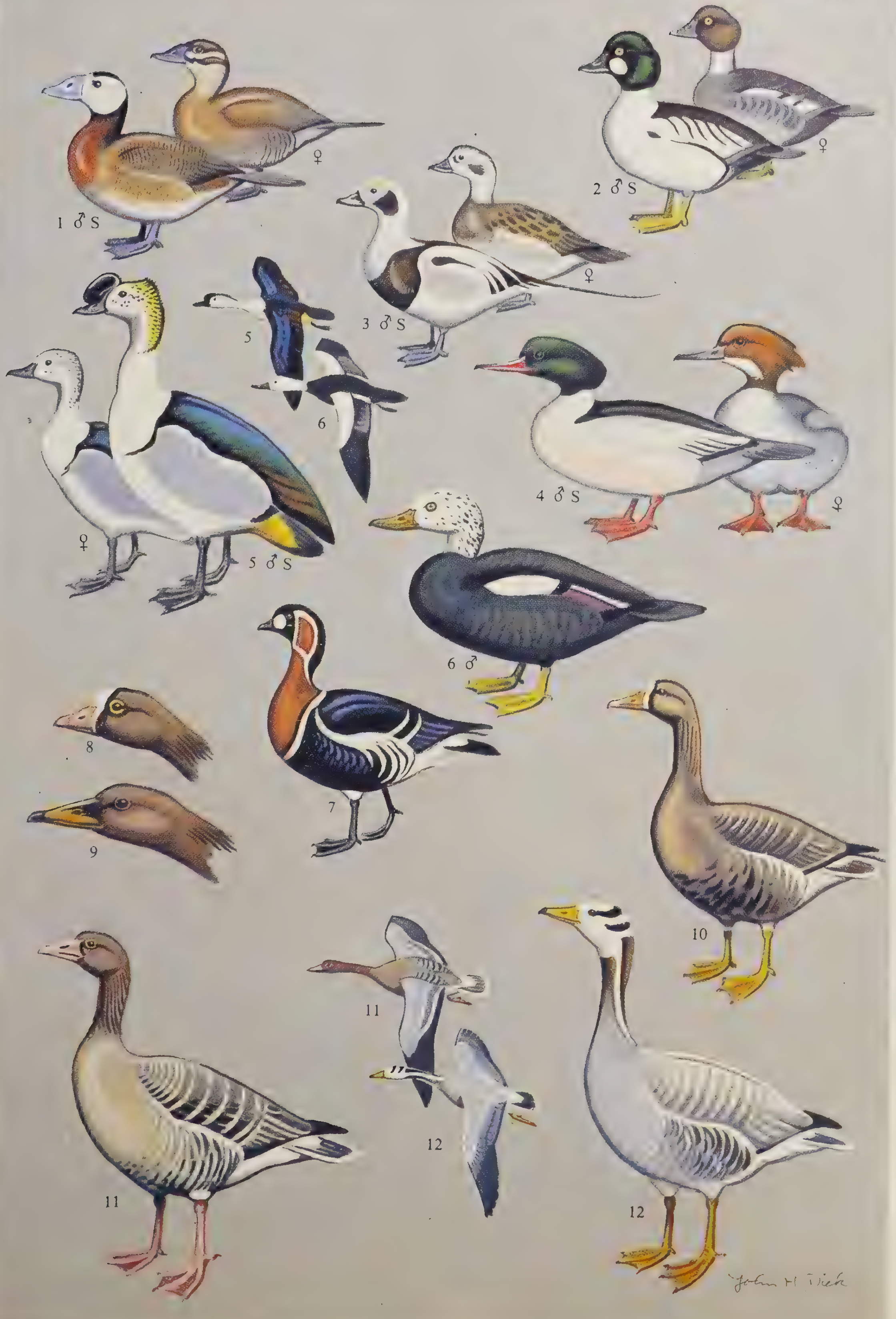
117. **(3)** LONGTAIL or OLD SQUAW DUCK *Clangula hyemalis* V Duck – : 42 cm. Jheels and large rivers. Three records from Pakistan; one each from Kashmir and NE Assam.

118. **(2)** GOLDENEYE DUCK *Bucephala clangula* M Duck – : 46 cm. Open reaches of swift-flowing rivers. Pakistan, Nepal (up to 3000 m) and N India.

120,121. **(4)** GOOSANDER, COMMON MERGANSER *Mergus merganser* RM Duck + : 66 cm. Large rivers, lakes and fast-flowing streams. Pakistan and N India south to Bombay and Madhya Pradesh (occasional), and east to Assam. *Breeding:* Ladakh.

123. **(1)** WHITEHEADED STIFFTAILED DUCK *Oxyura leucocephala* M Duck – : 46 cm. Large lakes. Pakistan and NW India; Rajasthan (once).

PLATE 12



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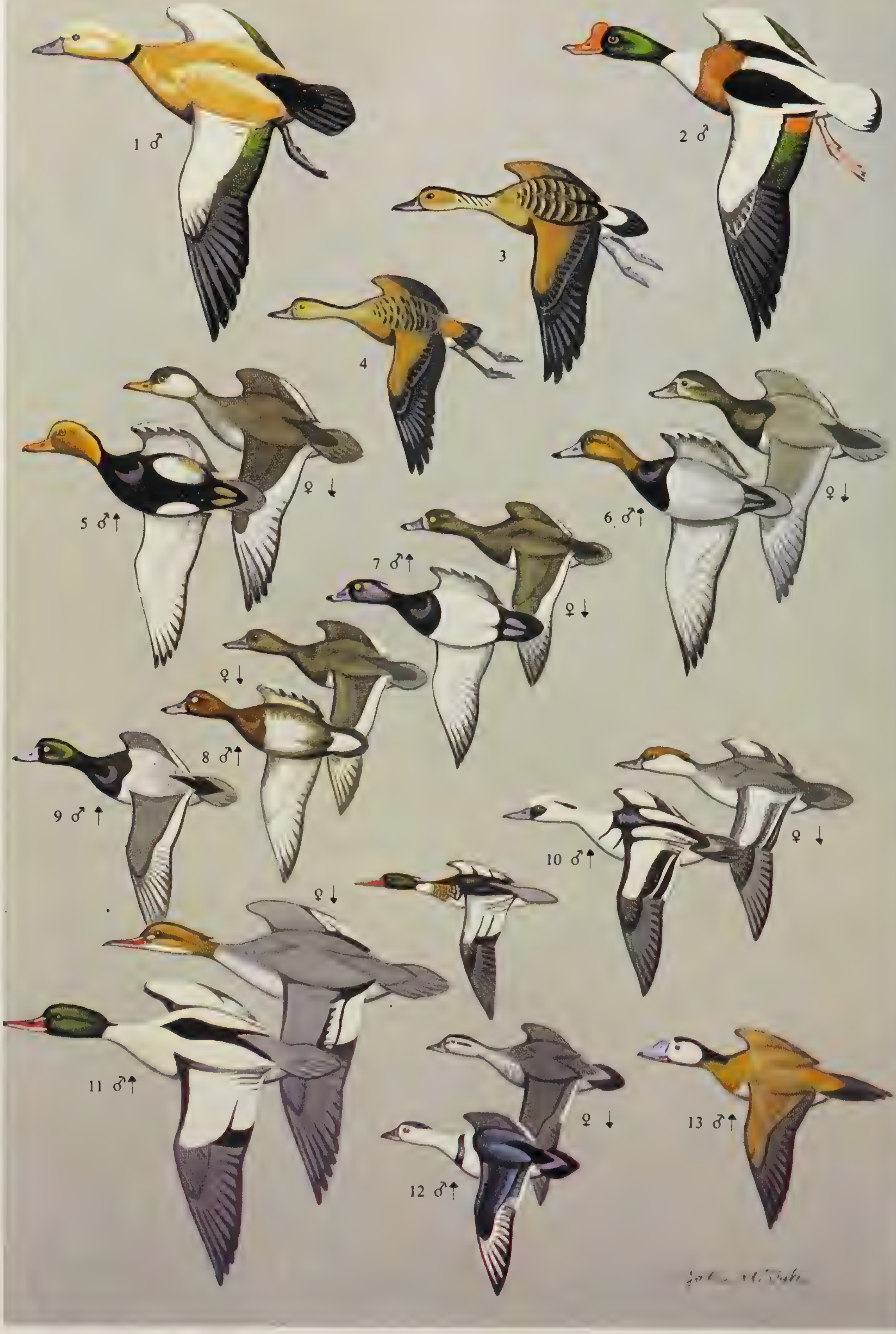
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12 ♂ ↑

PLATE 13

Ducks in flight. In all cases where pairs shown, ♂ below ♀ above.

88. **(4)** LESSER WHISTLING TEAL, or TREE DUCK *Dendrocygna javanica*
See Plate 11

89. **(3)** LARGE WHISTLING TEAL *Dendrocygna bicolor*
See Plate 11

90. **(1)** RUDDY SHELDUCK *Tadorna ferruginea*
See Plate 11

91. **(2)** COMMON SHELDUCK *Tadorna tadorna*
See Plate 11

107. **(5)** REDCRESTED POCHARD *Netta rufina*
See Plate 11

108. **(6)** COMMON POCHARD *Aythya ferina*
See Plate 11

109. **(8)** WHITE-EYED POCHARD *Aythya nyroca*
See Plate 11

111. **(7)** TUFTED DUCK *Aythya fuligula*
See Plate 11

112. **(9)** SCAUP DUCK *Aythya marila*
See Plate 11

114. **(12)** COTTON TEAL or QUACKY-DUCK *Nettapus coromandelianus*
See Plate 11

119. **(10)** SMEW *Mergus albellus*
See Plate 11

120,121. **(11)** COMMON MERGANSER *Mergus merganser*
See Plate 12

123. **(13)** WHITEHEADED STIFFTAILED DUCK *Oxyura leucocephala*
See Plate 12

PLATE 14

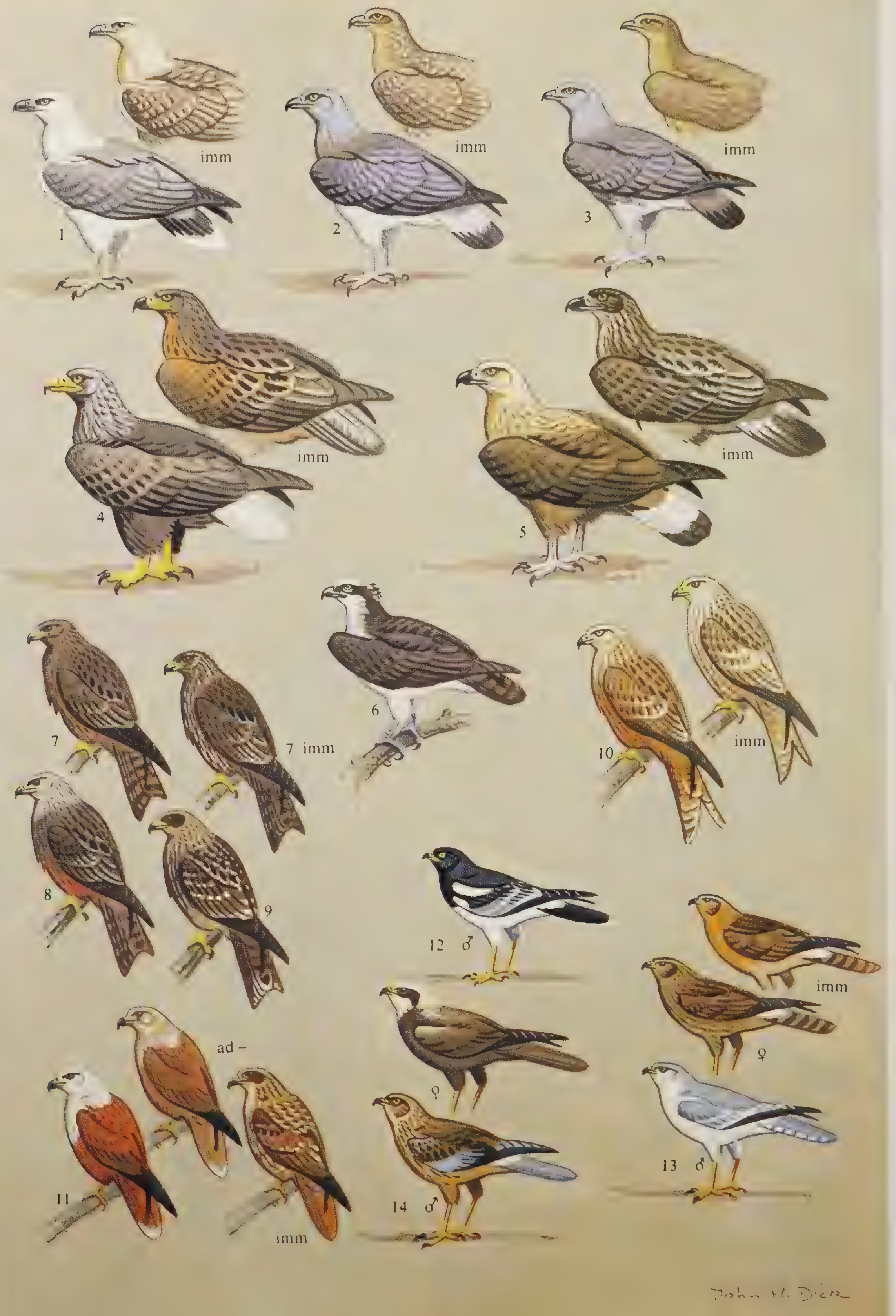
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PLATE 14

131. **(10)** RED KITE *Milvus milvus* V Kite: 61 cm. Three sight records: Kutch, Gujarat and Orissa.

132. **(8)** BLACK KITE *Milvus migrans migrans* R Kite: 61 cm. Chiefly urban localities. Baluchistan.

133. **(7)** PARIAH KITE *Milvus migrans govinda* R 61 cm. Chiefly urban localities. Subcontinent.

134. **(9)** BLACKEARED or LARGE INDIAN KITE *Milvus migrans lineatus* RM Kite+: 66 cm. Open wooded country. Pakistan, and India south to c. 18°N. *Breeding:* Ladakh and N Kashmir.

135. **(11)** BRAHMINY KITE *Haliastur indus* R Kite–: 48 cm. Sea coast and inland waters. Subcontinent.

172a. **(4)** WHITETAILED EAGLE *Haliaeetus albicilla* M Kite+: 69-86 cm. Essentially a sea eagle, but wanders up large rivers and to jheels and inundations. Pakistan. Also Gujarat, Rajasthan, Himachal Pradesh and Nepal.

173. **(1)** WHITEBELLIED SEA EAGLE *Haliaeetus leucogaster* R Kite+: 66-71 cm. Sea coast, tidal creeks and estuaries. Offshore islands and peninsular seaboard from Bombay to Bangladesh; Sri Lanka, Lakshadweep, Andaman and Nicobar is.

174. **(5)** PALLAS'S FISHING EAGLE *Haliaeetus leucoryphus* RM Kite+: 76-84 cm. Large rivers, lakes and jheels. Pakistan, and N India east through Bangladesh, south to Chilka Lake, Orissa.

175. **(2)** GREYHEADED FISHING EAGLE *Ichthyophaga ichthyaetus* R Kite+: 74 cm. Rivers, lakes, reservoirs in well-wooded country. Gangetic Plain east of Delhi through Bangladesh to Burma, south to Kerala; Sri Lanka.

177. **(3)** HIMALAYAN GREYHEADED FISHING EAGLE *Ichthyophaga nana* R Kite±: 64 cm. Clear forest streams; foothills up to 2400 m. Himalayas, Kashmir to Arunachal Pradesh.

190. **(13)** PALE HARRIER *Circus macrourus* M Kite–: 46-51 cm. Undulating country; plateaux, grassy hillsides, cultivation and semi-desert. Subcontinent.

192. **(12)** PIED HARRIER *Circus melanoleucos* RM Kite–: 46-49 cm. Grasslands, ricefields, margins of jheels. Chiefly E Subcontinent. *Breeding:* Assam.

193. **(14)** MARSH HARRIER *Circus aeruginosus* M Kite: – 54-59 cm. Marshes, flooded ricefields, upto 2000 m in the hills. Subcontinent.

203. **(6)** OSPREY *Pandion haliaetus* RM Kite–: 56 cm. Lakes, reservoirs, jheels, estuaries. Subcontinent. *Breeding:* (rarely) in the Himalayas 2000-3800 m (Ladakh, Kashmir, Garhwal, Kumaon, Arunachal Pradesh).

PLATE 15

Kites and Eagles in flight (from below)

131. **(1)** RED KITE *Milvus milvus*
See Plate 14

132. **(4)** BLACK KITE *Milvus migrans migrans*
See Plate 14

133. **(3)** PARIAH KITE *Milvus migrans govinda*
See Plate 14

134. **(2)** BLACKEARED or LARGE INDIAN KITE *Milvus migrans lineatus*
See Plate 14

172a. **(8)** WHITETAILED EAGLE *Haliaeetus albicilla*
See Plate 14

173. **(6)** WHITEBELLIED SEA EAGLE *Haliaeetus leucogaster*
See Plate 14

174. **(9)** PALLAS'S FISHING EAGLE *Haliaeetus leucoryphus*
See Plate 14

175. **(7)** GREYHEADED FISHING EAGLE *Ichthyophaga ichthyaetus*
See Plate 14

177. **(5)** HIMALAYAN GREYHEADED FISHING EAGLE *Ichthyophaga nana*
See Plate 14

PLATE

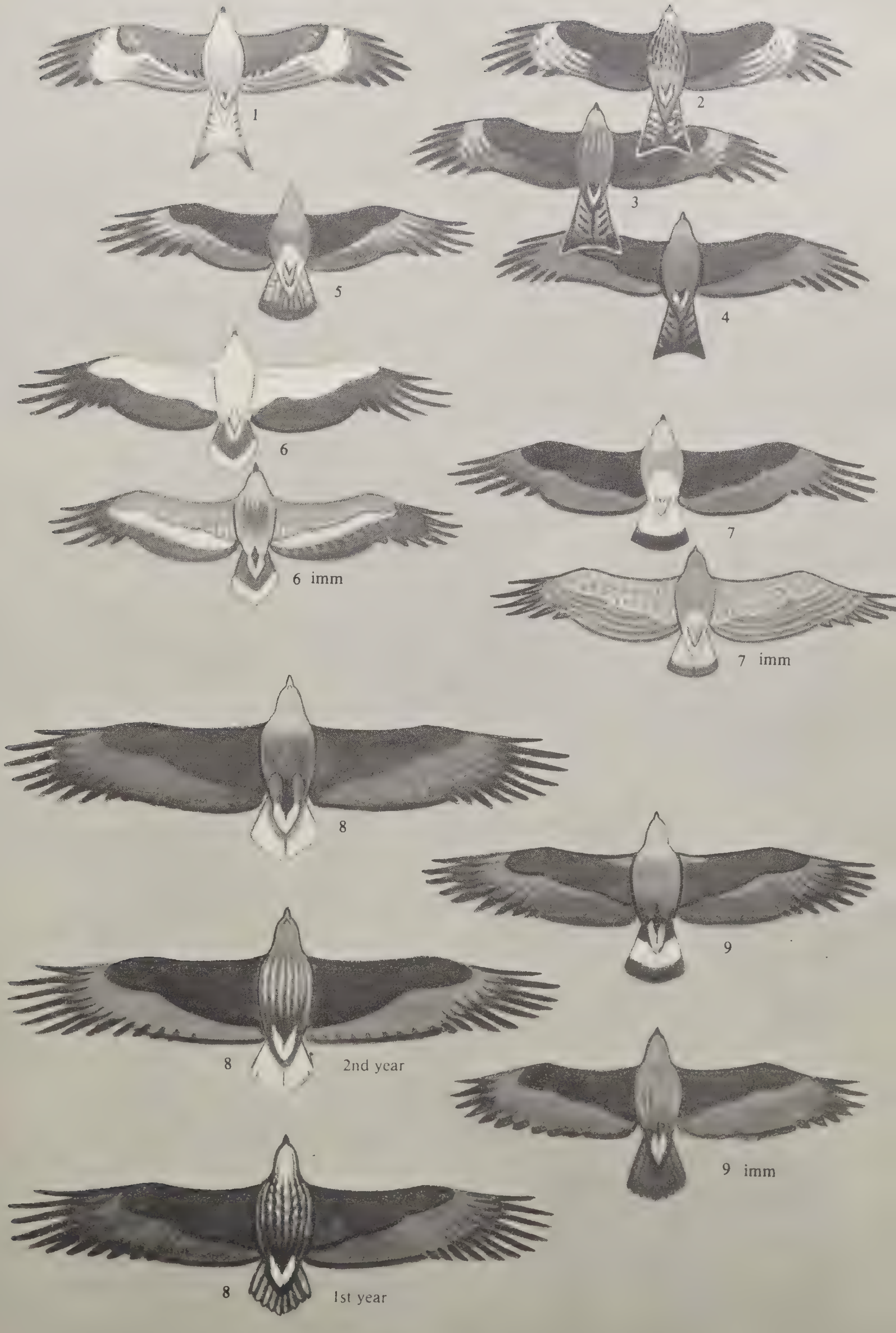
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PLATE 16

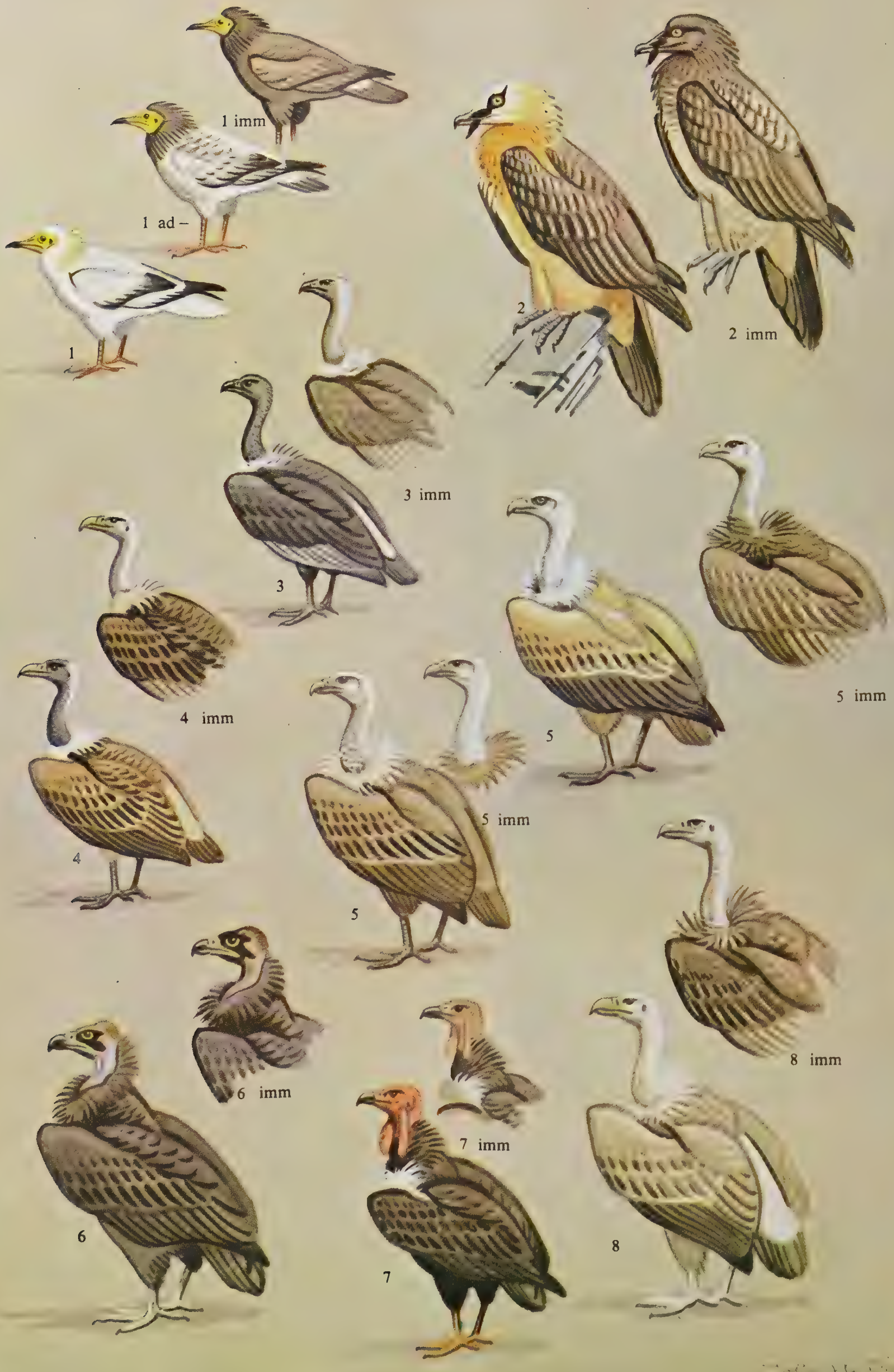
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PLATE 16

178. **(7)** BLACK or KING VULTURE *Sarcogyps calvus* R 84 cm. Open country, cultivation and semi-desert. Subcontinent up to c. 200 m. Absent Sri Lanka.

179. **(6)** CINEREOUS VULTURE *Aegypius monachus* RM Vulture+: 100-110 cm. Semi-desert. Baluchistan to Gilgit; Assam; possibly elsewhere in the dry temperate zone along the Himalayas. Vagrant in Sind, Kutch, Gujarat and Madhya Pradesh (winter).

180. **(5)** GRIFFON VULTURE *Gyps fulvus*[1] RM Vulture+: 110-122 cm. Semi-desert country and bare mountains. *Breeding:* Kashmir, Pakistan, NW India and Nepal up to c. 3000 m.

181. **(8)** HIMALAYAN GRIFFON *Gyps himalayensis* R Vulture+: 122 cm. Bare high mountains. Himalayas, c. 600-2500 m.

182. **(4)** INDIAN LONGBILLED VULTURE *Gyps indicus* R 92 cm. Open countryside. Subcontinent. Absent in Sri Lanka.

185. **(3)** INDIAN WHITEBACKED VULTURE *Gyps bengalensis* R 90 cm. Open countryside. Subcontinent, up to c. 2500 m. Absent in Sri Lanka.

186. **(1)** EGYPTIAN or SCAVENGER VULTURE *Neophron percnopterus* RM Kite ±: 64 cm. Near towns and villages. Subcontinent up to c. 3000 m.

188. **(2)** BEARDED VULTURE or LÄMMERGEIER *Gypaetus barbatus* R Vulture+: 122 cm. Himalayas and associated northern mountains. Pakistan, Kashmir and east to Bhutan and Arunachal Pradesh, normally 1200 to 4200 m, soaring to over 7000 m.

[1] No. 5 is repeated because since this plate was painted the two subspecies shown in the plate have been synonymised.

PLATE 17

Kites, Vultures and Eagles in flight (from above)

131. **(3)** RED KITE *Milvus milvus*
See Plate 14

133. **(1)** PARIAH KITE *Milvus migrans govinda*
See Plate 14

135. **(2)** BRAHMINY KITE *Haliastur indus*
See Plate 14

164. **(5)** BOOTED HAWK-EAGLE *Hieraaetus pennatus*
See Plate 20

178. **(8)** BLACK or KING VULTURE *Sarcogyps calvus*
See Plate 16

179. **(7)** CINEREOUS VULTURE *Aegypius monachus*
See Plate 16

180. **(10)** GRIFFON VULTURE *Gyps fulvus*
See Plate 16

181. **(9)** HIMALAYAN GRIFFON *Gyps himalayensis*
See Plate 16

182. **(12)** INDIAN LONGBILLED VULTURE *Gyps indicus*
See Plate 16

185. **(11)** INDIAN WHITEBACKED VULTURE *Gyps bengalensis*
See Plate 16

186. **(4)** EGYPTIAN or SCAVENGER VULTURE *Neophron percnopterus*
See Plate 16

188. **(6)** BEARDED VULTURE or LAMMERGEIER *Gypaetus barbatus*
See Plate 16

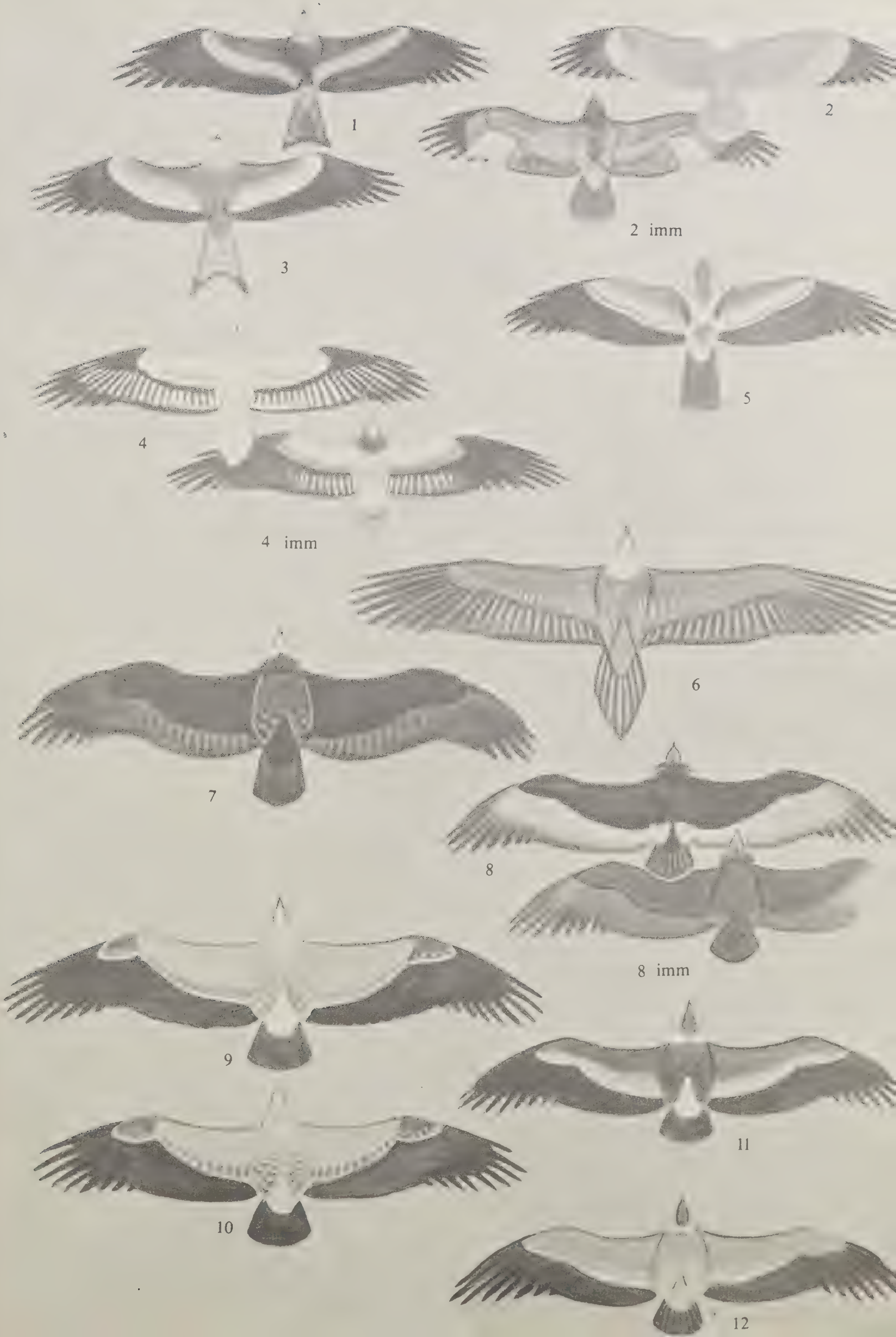
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PLATE 18

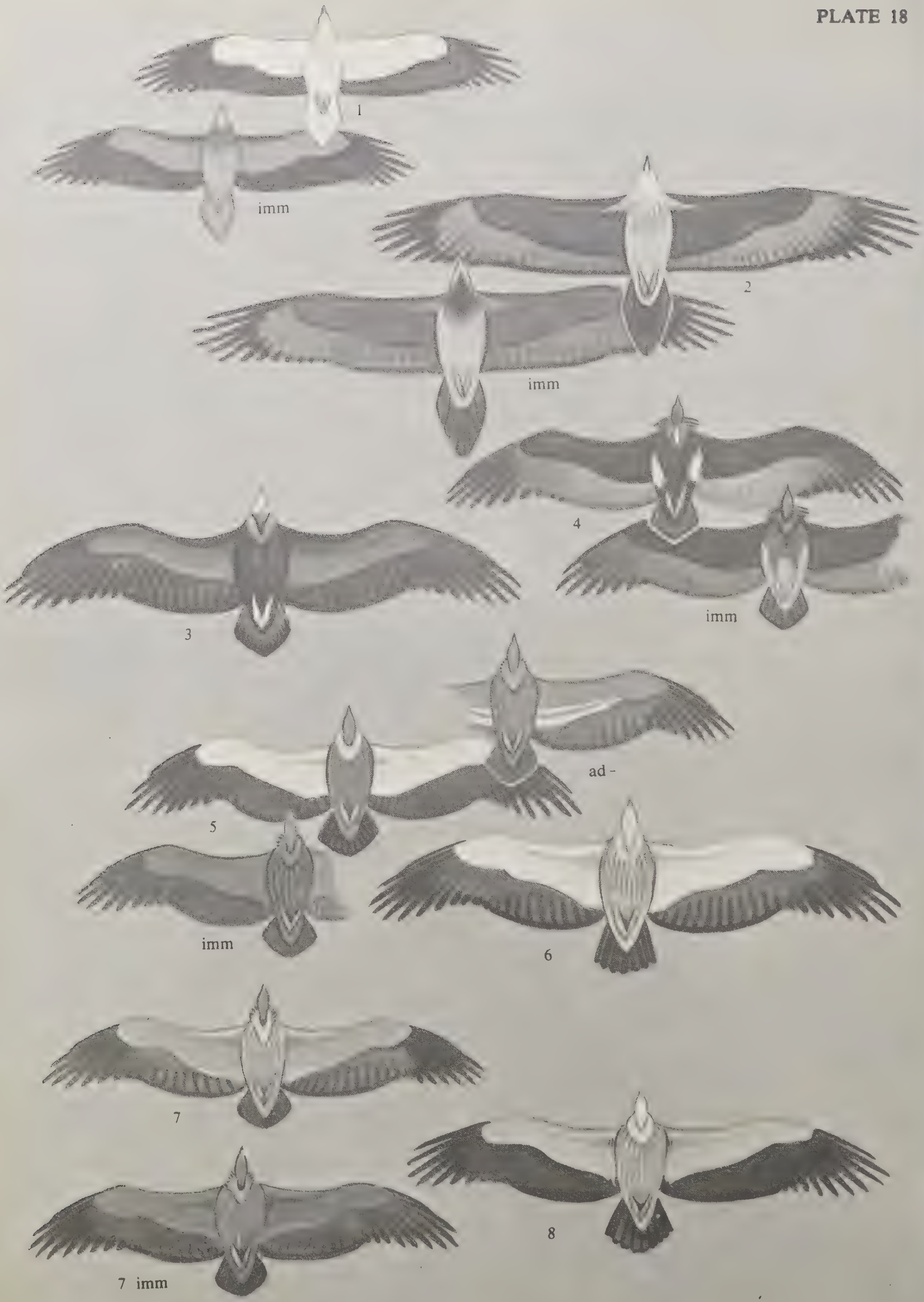
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PLATE 18

Vultures in flight (from below)

178. **(4)** BLACK or KING VULTURE *Sarcogyps calvus*
See Plate 16

179. **(3)** CINEREOUS VULTURE *Aegypius monachus*
See Plate 16

180. **(8)** GRIFFON VULTURE *Gyps fulvus*
See Plate 16

181. **(6)** HIMALAYAN GRIFFON *Gyps himalayensis*
See Plate 16

182. **(7)** INDIAN LONGBILLED VULTURE *Gyps indicus*
See Plate 16

185. **(5)** INDIAN WHITEBACKED VULTURE *Gyps bengalensis*
See Plate 16

186. **(1)** EGYPTIAN or SCAVENGER VULTURE *Neophron percnopterus*
See Plate 16

188. **(2)** BEARDED VULTURE or LAMMERGEIER *Gypaetus barbatus*
See Plate 16

PLATE 19

Harriers in flight

189. **(1)** HEN – HARRIER *Circus cyaneus* M Kite – : 46-54 cm. Open plains, cultivated country and foothills to c. 2500 m. Pakistan, and N India east to Assam, south to Maharashtra.

190. **(2)** PALE HARRIER *Circus macrourus*
See Plate 14

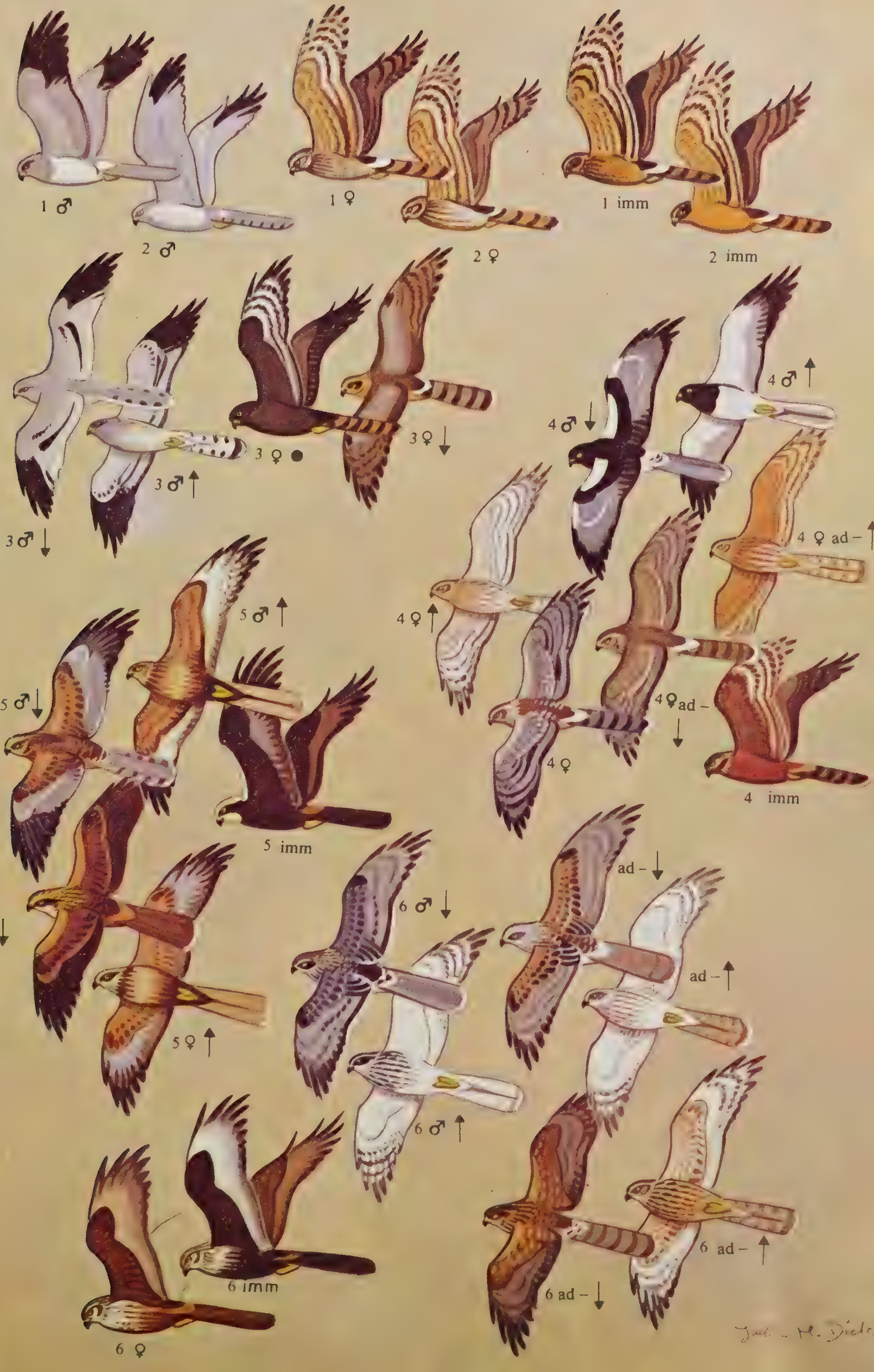
191. **(3)** MONTAGU'S HARRIER *Circus pygargus* M Kite – : 46-49 cm. Swamps, grassy plains and cultivation. Subcontinent.

192. **(4)** PIED HARRIER *Circus melanoleucos*
See Plate 14

193. **(5)** MARSH HARRIER *Circus aeruginosus*
See Plate 14

194. **(6)** (EASTERN) MARSH HARRIER (or STRIPED HARRIER) *Circus aeruginosus spilonotus* M Kite – : 54-59 cm. Marshland. Only recorded in Manipur and Assam (Cachar).

PLATE 19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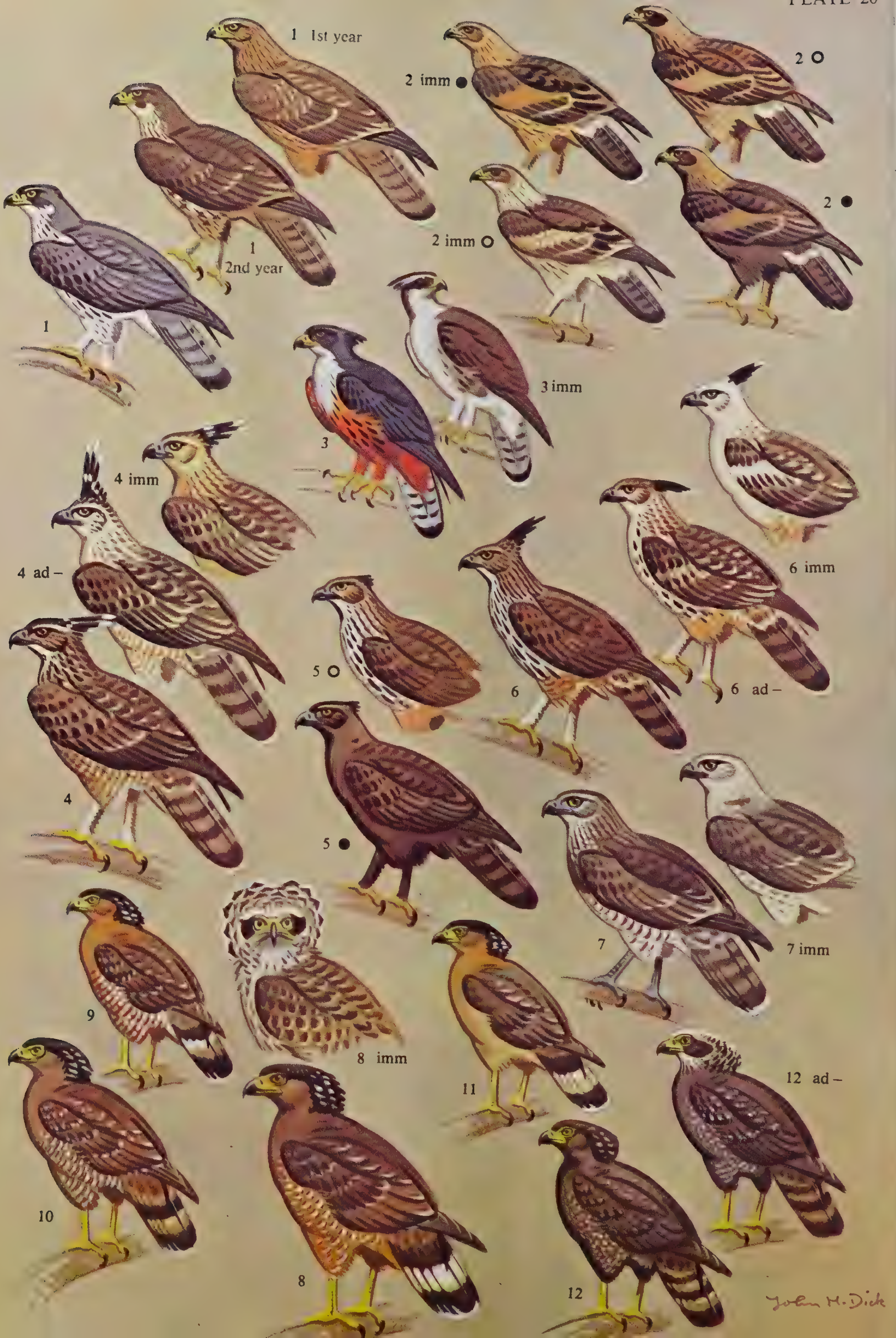
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John M. Dick

PLATE 20

158. **(4)** HODGSON'S HAWK-EAGLE *Spizaetus nipalensis* RM Kite + : 72 cm. Forests. Himalayas (between c. 600 and 2400 m), the hills south of the Brahmaputra, and Manipur. Occasional in northern plains and Peninsula in winter.

160. **(5)** CHANGEABLE HAWK-EAGLE *Spizaetus cirrhatus limnaeetus* R Kite + : 70 cm. Forests. Lower Himalayas (below c. 1800 m) from Garhwal to Arunachal Pradesh.

161. **(6)** CRESTED HAWK-EAGLE *Spizaetus cirrhatus cirrhatus* R Kite + : 72 cm. Deciduous and semi-evergreen forest. Gangetic Plain and Indian peninsula southward. Also Sri Lanka.

163. **(1)** BONELLI'S EAGLE *Hieraaetus fasciatus* R Kite + : 68-72 cm. Well-wooded country. Subcontinent, up to 2400 m in the Himalayas; not recorded east of N Bengal duars.

164. **(2)** BOOTED HAWK-EAGLE *Hieraaetus pennatus* RM Kite – : 50-54 cm. Well-wooded country hill and plain, and semi-desert. W Himalayas above 1000 m. *Winter:* Subcontinent.

165. **(3)** RUFOUSBELLIED HAWK-EAGLE *Hieraaetus kienerii* R Kite ± : 53-61 cm. Evergreen and moist-deciduous forest. Range discontinuous: W Ghats from Goa and N Karnataka south through Kerala and Sri Lanka; Nepal and Sikkim to Arunachal Pradesh, south through Assam and Bangladesh to Burma.

195. **(7)** SHORT-TOED EAGLE *Circaetus gallicus* R Kite + : 63-68 cm. Cultivated plains, stony deciduous scrub, semi-desert and hills to c. 2300 m. Subcontinent; not east of Bangladesh or Sri Lanka.

196. **(8)** CRESTED SERPENT EAGLE *Spilornis cheela* R Kite + : 74 cm. Well-wooded country. Himalayan foothills and Gangetic Plain; peninsular India; Sri Lanka

200. **(9)** ANDAMAN PALE SERPENT EAGLE *Spilornis cheela davisoni* R Kite – 56 cm. Tidal creeks and mangroves. Andaman and Nicobar Is.

201. **(10)** NICOBAR CRESTED SERPENT EAGLE *Spilornis cheela minimus* R Kite – : 48 cm. Only in forest near rivers. Nicobar Is.

202. **(11)** GREAT NICOBAR SERPENT EAGLE *Spilornis klossi* R Kite – : 46 cm. Sambelong or Great Nicobar I.

202a. **(12)** ANDAMAN DARK SERPENT EAGLE *Spilornis elgini* R Kite – : 50 cm. Inland forest clearings and sparsely wooded hillsides. Andaman Is.

PLATE 21

Raptors in flight (from below)

125. **(8)** BLYTH'S BAZA *Aviceda jerdoni*
See Plate 22

158. **(10)** HODGSON'S HAWK-EAGLE *Spizaetus nipalensis*
See Plate 20

160. **(9)** CHANGEABLE HAWK-EAGLE *Spizaetus cirrhatus limnaeetus*
See Plate 20

161. **(7)** CRESTED HAWK-EAGLE *Spizaetus cirrhatus*
See Plate 20

163. **(2)** BONELLI'S EAGLE *Hieraaetus fasciatus*
See Plate 20

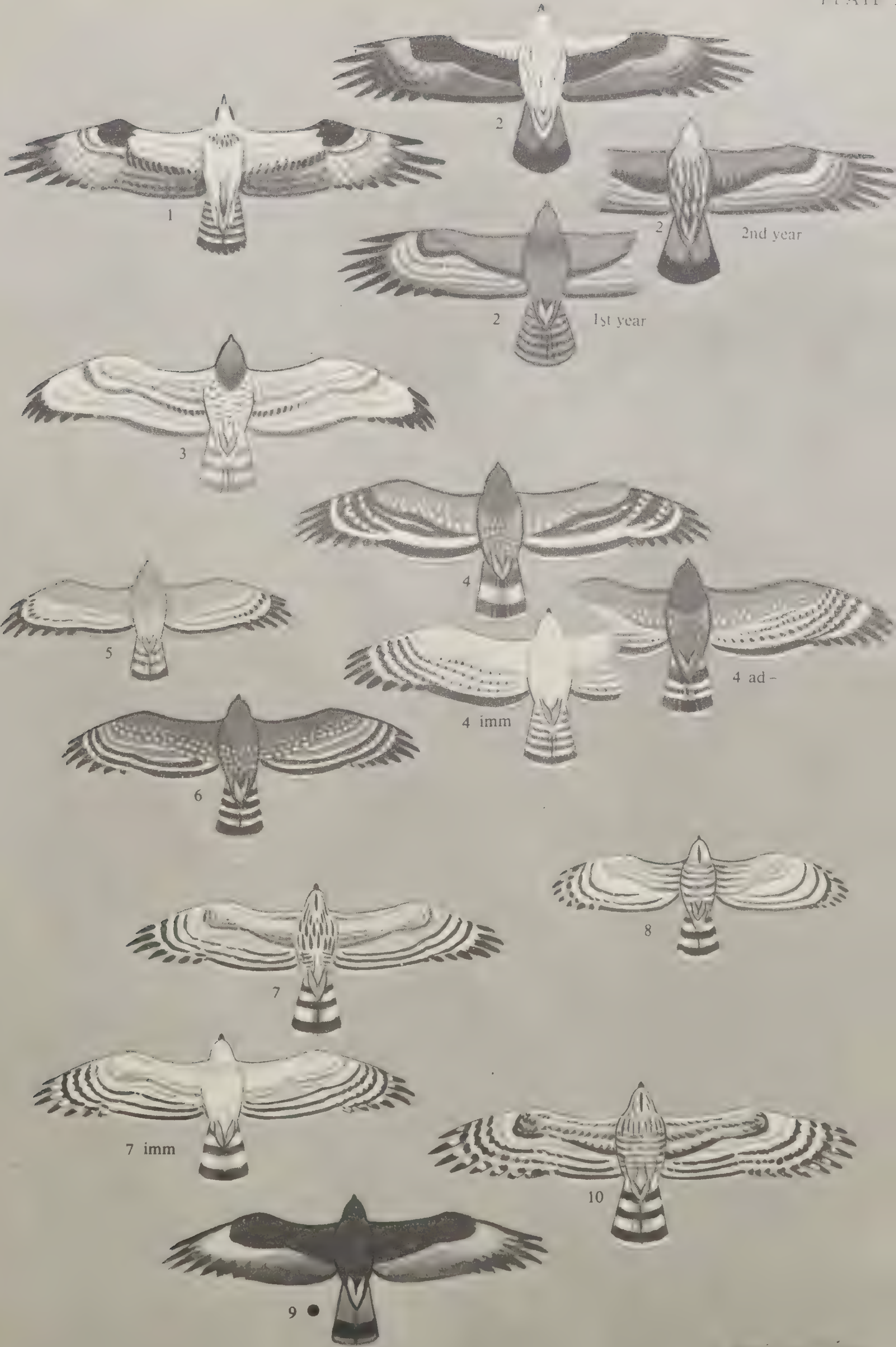
195. **(3)** SHORT-TOED EAGLE *Circaetus gallicus*
See Plate 20

196. **(4)** CRESTED SERPENT EAGLE *Spîlornis cheela*
See Plate 20

202. **(5)** GREAT NICOBAR SERPENT EAGLE *Spilornis klossi*
See Plate 20

202a. **(6)** ANDAMAN DARK SERPENT EAGLE *Spilornis elgini*
See Plate 20

203. **(1)** OSPREY *Pandion haliaetus*
See Plate 14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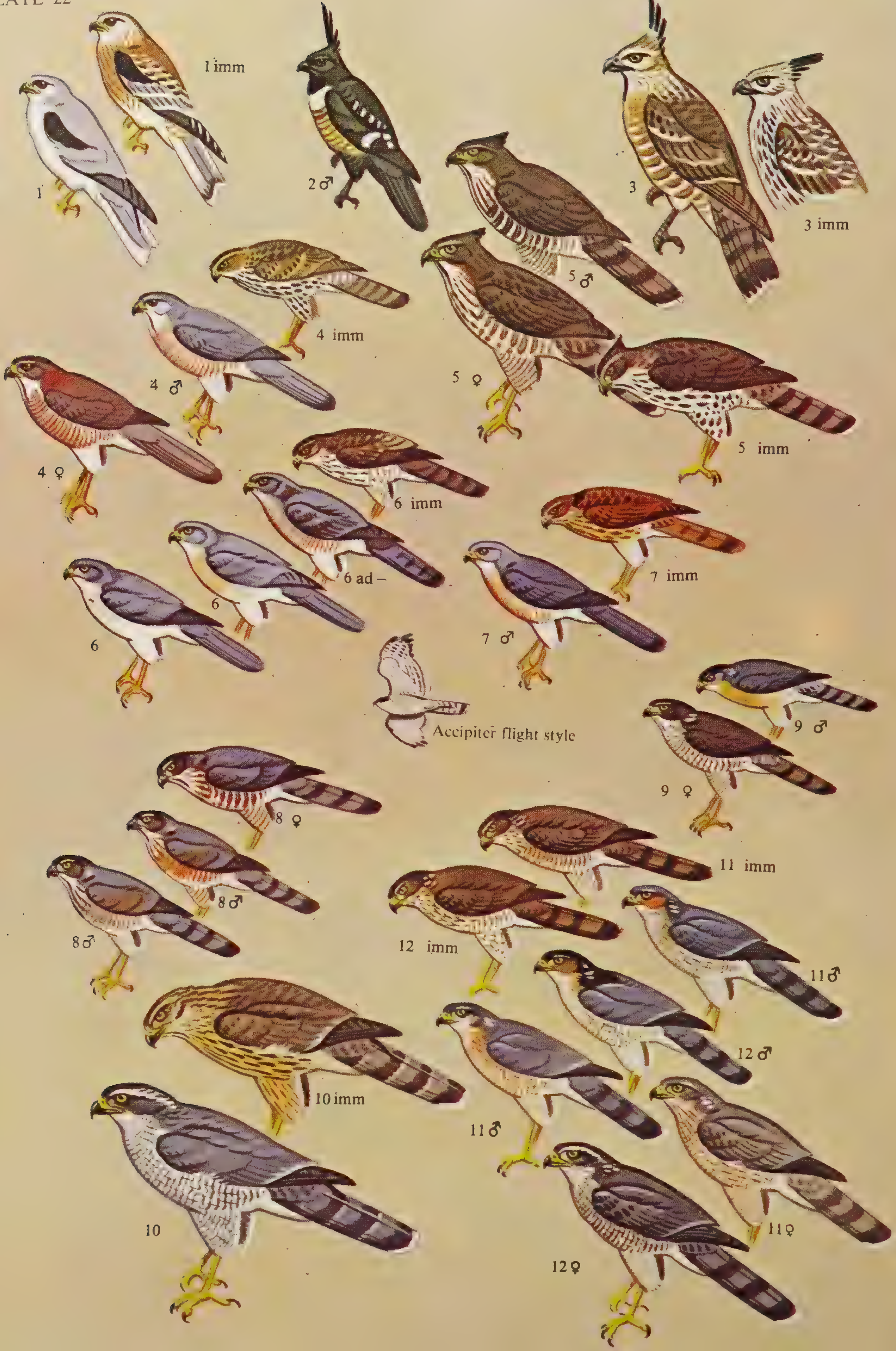
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PLATE 22

124. **(1)** BLACKWINGED KITE *Elanus caeruleus* R Crow–: 33 cm. Deciduous biotope: thin savannah forest, grassland, cultivation; plains and hills up to c. 1200 m. Subcontinent.

125. **(3)** BLYTH'S BAZA *Aviceda jerdoni* R Crow+: 48 cm. Tropical evergreen foothills. Range disjunct: E Himalayas (Sikkim, Darjeeling, Assam and associated states, Chittagong Hill Tracts) up to c. 1800 m; SW India (Kerala, Karnataka) and Sri Lanka, between c. 150 and 900 m.

127. **(2)** BLACKCRESTED BAZA *Aviceda leuphotes* ?RM Pigeon±: 33 cm. Tropical evergreen foothills forest. Range disjunct, more or less overlapping that of 125 q.v.

136. **(10)** GOSHAWK *Accipiter gentilis* RM Kite±: ♂ c. 50 cm, ♀ c. 61 cm. Forests. Lower Himalayas from Kashmir to Arunachal Pradesh; breeding above c. 2400 m, in NW. Sporadic in Pakistan and peninsular India (winter).

139. **(4)** SHIKRA *Accipiter badius* R Crow–: 30-34 cm. Light deciduous forest, village groves, etc. Subcontinent; plains and hills up to c. 1800 .

141. **(7)** CAR NICOBAR SHIKRA *Accipiter badius butleri* R Crow–: 30 cm. Car Nicobar I.

143. **(6)** HORSFIELD'S GOSHAWK *Accipiter soloensis* M Crow–: 30 cm. Andaman and Nicobar Is. (winter).

144. **(5)** CRESTED GOSHAWK *Accipiter trivirgatus* R Crow+: 40-46 cm. Open deciduous and semi-evergreen foothills forest. Himalayas (up to c. 2000 m) from Garhwal east to Sikkim; Assam and associated states; south to the Godavari river; SW India from Goa, south to Kerala; Sri Lanka.

147. **(11)** SPARROW-HAWK *Accipiter nisus nisosimilis* M Crow–: 31-36 cm. Well-wooded country: light forest, groves, orchards, etc. Subcontinent. Absent in Sri Lanka.

148. **(12)** SPARROW-HAWK *Accipiter nisus melaschistos* RM Crow–: 31-36 cm. Forest and well-wooded country. Baluchistan and Himalayas, up to c. 4000 m. Descends to the foothills and adjacent plains in winter.

151. **(8)** BESRA SPARROW-HAWK *Accipiter virgatus besra* R Crow–: 29-34 cm. Heavy evergreen and moist-deciduous forest. W Ghats between c. 600 and 1200 m, from Bombay south through Kerala; sparingly also in E Ghats, Sri Lanka.

152. **(9)** EASTERN BESRA SPARROW-HAWK *Accipiter virgatus gularis* RM Crow–: 29-34 cm. Andaman Is. (breeding); also the Nicobars where breeding unconfirmed. Possible winter migrant to extreme E India and Bangladesh from E Asia.

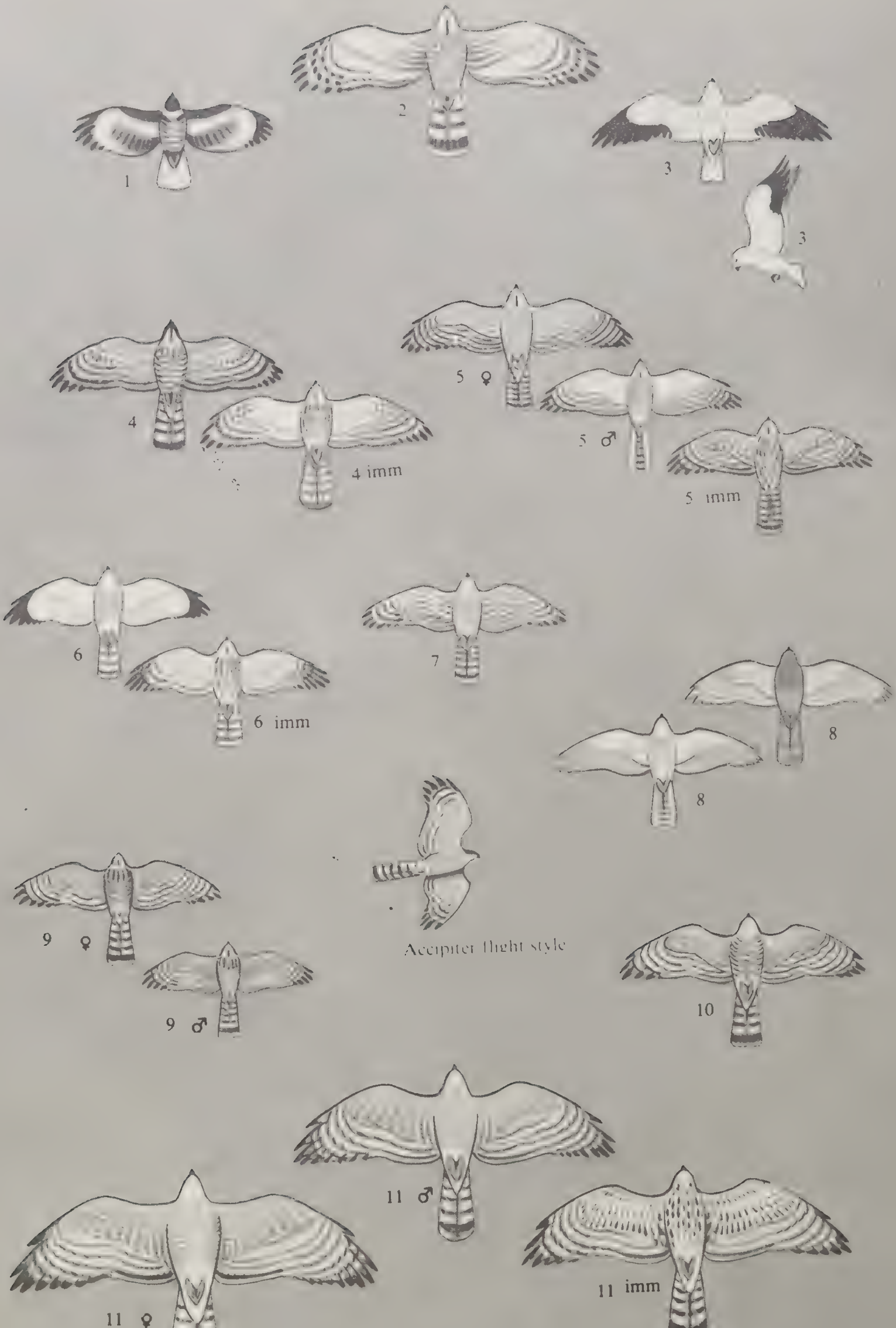
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PLATE 23

Raptors in flight (from below)-contd.

124. **(3)** BLACKWINGED KITE *Elanus caeruleus*
See Plate 22

125. **(2)** BLYTH'S BAZA *Aviceda jerdoni*
See Plate 21

127. **(1)** BLACKCRESTED BAZA *Aviceda leuphotes*
See Plate 22

136. **(11)** GOSHAWK *Accipiter gentilis*
See Plate 22

139. **(5)** SHIKRA *Accipiter badius*
See Plate 22

141. **(8)** CAR NICOBAR SHIKRA *Accipiter badius butleri*
See Plate 22

143. **(6)** HORSFIELD'S GOSHAWK *Accipiter soloensis*
See Plate 22

144. **(4)** CRESTED GOSHAWK *Accipiter trivirgatus*
See Plate 22

148. **(10)** SPARROW-HAWK *Accipiter nisus*
See Plate 22

151. **(9)** BESRA SPARROW-HAWK *Accipiter virgatus*
See Plate 22

152. **(7)** EASTERN BESRA SPARROW-HAWK *Accipiter virgatus gularis*
See Plate 22

PLATE 24

130. **(1)** HONEY BUZZARD *Pernis ptilorhyncus* RM Kite ±: 68 cm. Semi-desert country, deciduous and semi-evergreen forest, and cultivation. Subcontinent; up to c. 1800 m in the Himalayas. Six colour phases: a-f

153. **(6)** LONGLEGGED BUZZARD *Buteo rufinus* RM Kite ±: 61 cm. *Summer:* precipitous rocky ground with forest. *Winter:* open country and cultivation. Pakistan; Himalayas; southward in the Peninsula to Karnataka and Tamil Nadu. Three colour phases: a-c.

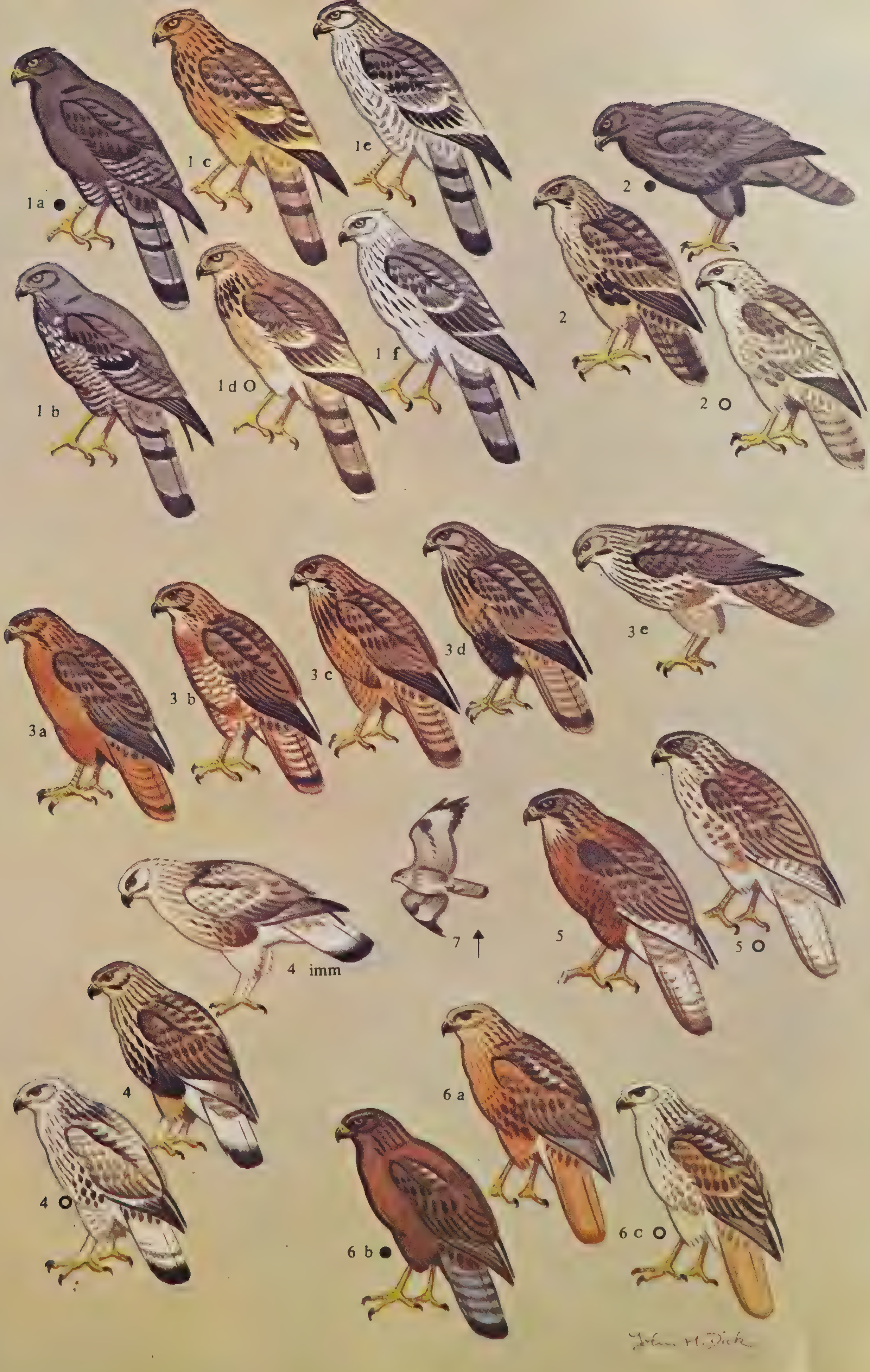
154. **(5)** UPLAND BUZZARD *Buteo hemilasius* V Kite +: 71 cm. Rare winter visitor to the Himalayas. Specimens definitely identified only from Kashmir, Himachal Pradesh, Punjab, Nepal, Sikkim.

155. **(3)** DESERT BUZZARD *Buteo buteo vulpinus* M Kite –: 51-56 cm. Easily confused with other buzzards due to the great variability in their plumages. Definite records from Nepal, Simla and Mishmi Hills. Five colour phases: a-e.

156. **(2)** JAPANESE BUZZARD *Buteo buteo japonicus* RM Kite –: 51-56 cm. Recorded in winter in E Himalayas, the hills south of the Brahmaputra to Manipur, and peninsular India south to Kerala and Tamil Nadu. Also Sri Lanka.

EL. **(4)** ROUGHLEGGED BUZZARD *Buteo lagopus* Holarctic.

(7) Typical buzzard flight style.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John H. Dick

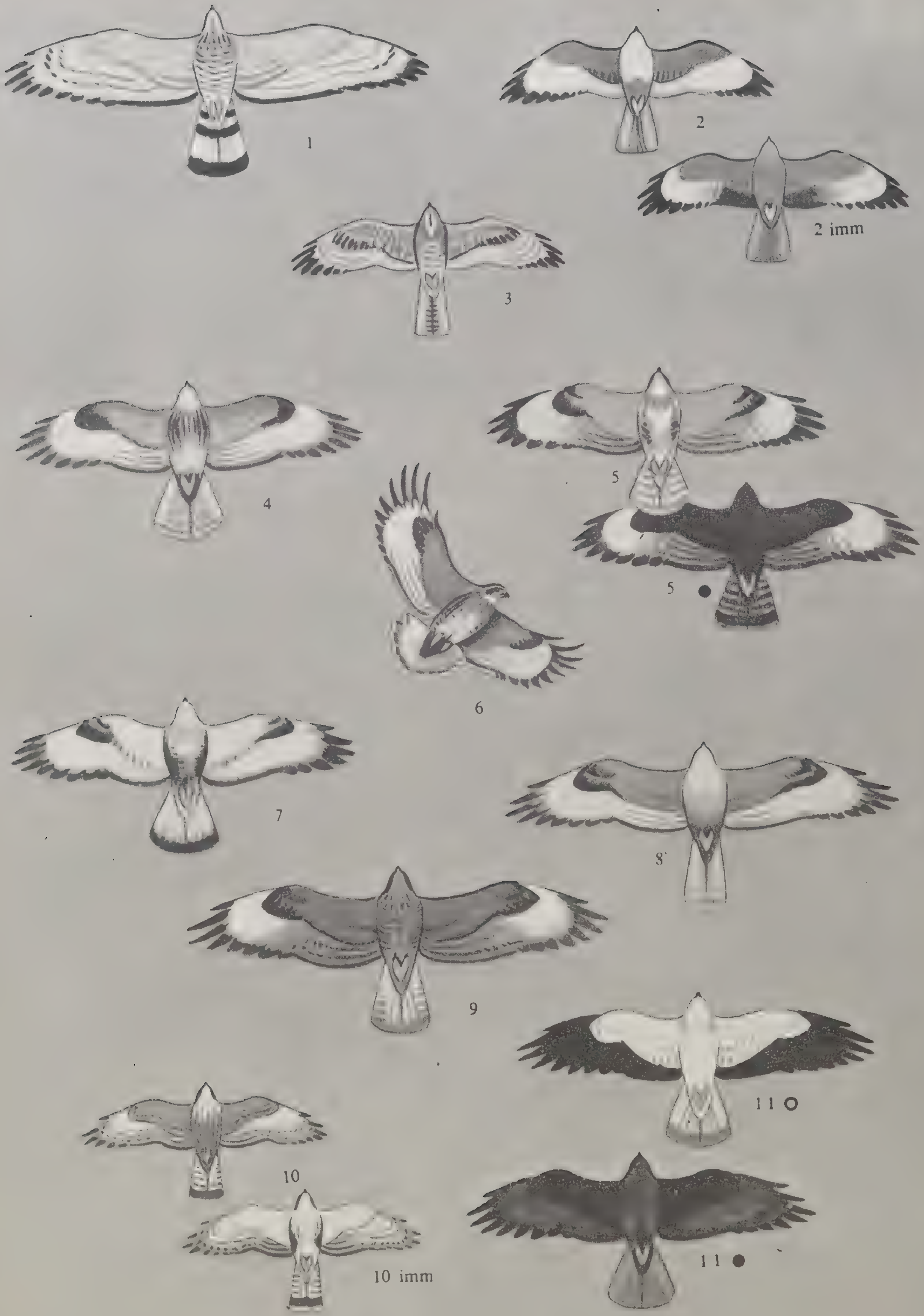
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PLATE 25

Kites Buzzards and Eagles in flight (from below)

130. **(1)** HONEY BUZZARD *Pernis ptilorhyncus*
See Plate 24

135. **(2)** BRAHMINY KITE *Haliastur indus*
See Plate 14

153. **(8)** LONGLEGGED BUZZARD *Buteo rufinus*
See Plate 24

154. **(9)** UPLAND BUZZARD *Buteo hemilasius*
See Plate 24

155. **(4)** DESERT BUZZARD *Buteo buteo vulpinus*
See Plate 24

156. **(5)** JAPANESE BUZZARD Buteo buteo japonicus
See Plate 24

157. **(3)** WHITE-EYED BUZZARD-EAGLE *Butastur teesa*
See Plate 29

164. **(11)** BOOTED HAWK-EAGLE *Hieraaetus pennatus*
See Plate 17

165. **(10)** RUFOUSBELLIED HAWK-EAGLE *Hieraaetus kienerii*
See Plate 20

EL. **(7)** ROUGHLEGGED BUZZARD *Buteo lagopus*
See Plate 24

(6) Typical buzzard flight style

PLATE 26

166. **(6)** GOLDEN EAGLE *Aquila chrysaetos* R Vulture ±: 90-100 cm. Rugged high mountain country between 1800 m and 5000+ m. Baluchistan and Himalayas.

167. **(7)** IMPERIAL EAGLE *Aquila heliaca* RM Vulture –: 81-90 cm. Open treeless country. Pakistan and NW India. In winter south to Saurashtra (Gujarat), east to Nepal and Bangladesh.

168. **(4)** TAWNY EAGLE *Aquila rapax vindhiana* R Kite +: 63-71 cm. Semi-desert and dry– and moist-deciduous country. Baluchistan and NWFP east to Nepal terai and Bangladesh, south to Kanara and Tamil Nadu. Variant immatures: a-c.

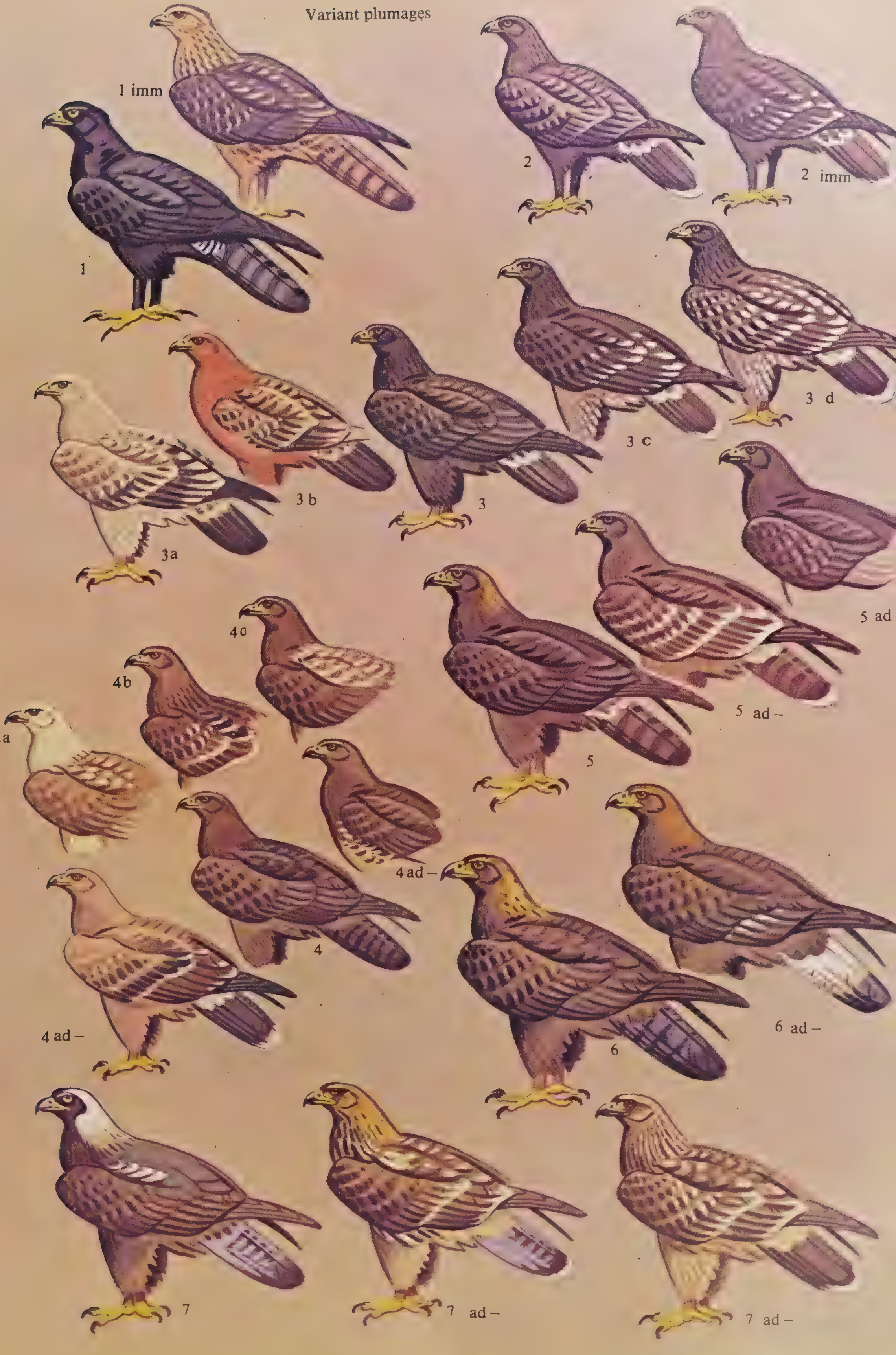
169. **(5)** EASTERN STEPPE EAGLE *Aquila rapax nipalensis* M Kite +: 76-80 cm. Open plains, often near water. Pakistan and N India, Bangladesh(?), south to Bombay and Orissa.

170. **(3)** GREATER SPOTTED EAGLE *Aquila clanga* RM Kite +: 64-72 cm. Large marshes, jheels and canals. Pakistan, N India and Nepal, east through Bangladesh to Burma. Variant plumages: a-d.

171. **(2)** LESSER SPOTTED EAGLE *Aquila pomarina* R Kite +: 61-66 cm. Open wooded country and cultivation. Chiefly the Gangetic plain and Nepal terai, east through Bangladesh to Burma, south to Madhya Pradesh and Orissa.

172. **(1)** BLACK EAGLE *Ictinaetus malayensis* R Kite +: 69-81 cm. Partial to hill forest. Lower Himalayas (up to c. 2700 m); hills south of the Brahmaputra; peninsular India south to Kanyakumari; Sri Lanka.

Variant plumages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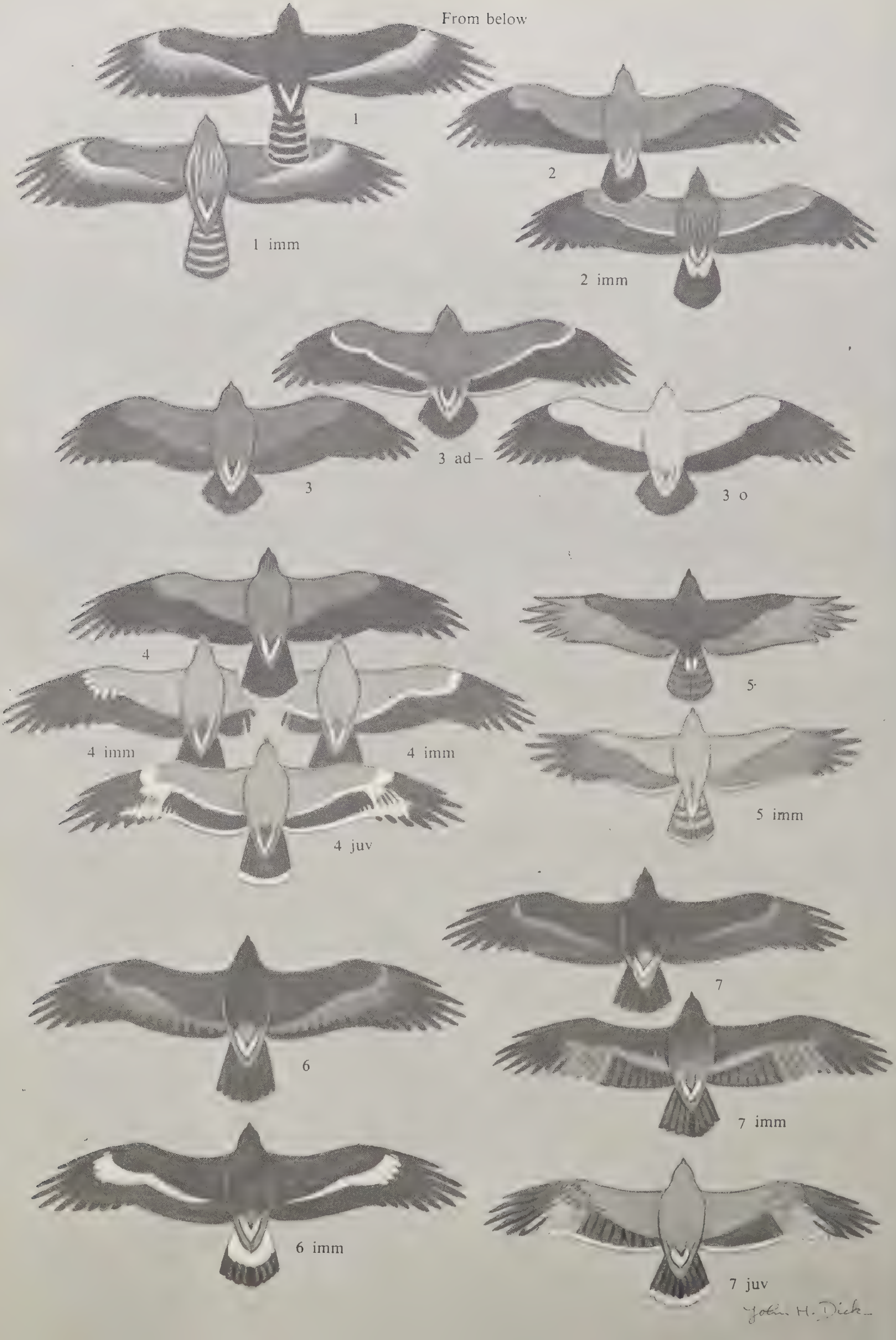
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PLATE 27

Eagles in flight (from below)

166. **(6)** GOLDEN EAGLE *Aquila chrysaetos*
See Plate 26

167. **(7)** IMPERIAL EAGLE *Aquila heliaca*
See Plate 26

168. **(5)** TAWNY EAGLE *Aquila rapax vindhiana*
See Plate 26

169. **(4)** EASTERN STEPPE EAGLE *Aquila rapax nipalensis*
See Plate 26

170. **(3)** GREATER SPOTTED EAGLE *Aquila clanga*
See Plate 26

171. **(2)** LESSER SPOTTED EAGLE *Aquila pomarina*
See Plate 26

172. **(1)** BLACK EAGLE *Ictinaetus malayensis*
See Plate 26

PLATE 28

Baza, Kites, Buzzards & Eagles in flight

124. **(2)** BLACKWINGED KITE *Elanus caeruleus*
See Plate 22

127. **(1)** INDIAN BLACKCRESTED BAZA *Aviceda leuphotes*
See Plate 22

157. **(3)** WHITE-EYED BUZZARD-EAGLE *Butastur teesa*
See Plate 29

161. **(12)** CRESTED HAWK-EAGLE *Spizaetus cirrhatus*
See Plate 20

163. **(11)** BONELLI'S EAGLE *Hieraaetus fasciatus*
See Plate 20

166. **(9)** GOLDEN EAGLE *Aquila chrysaetos*
See Plate 26

167. **(10)** IMPERIAL EAGLE *Aquila heliaca*
See Plate 26

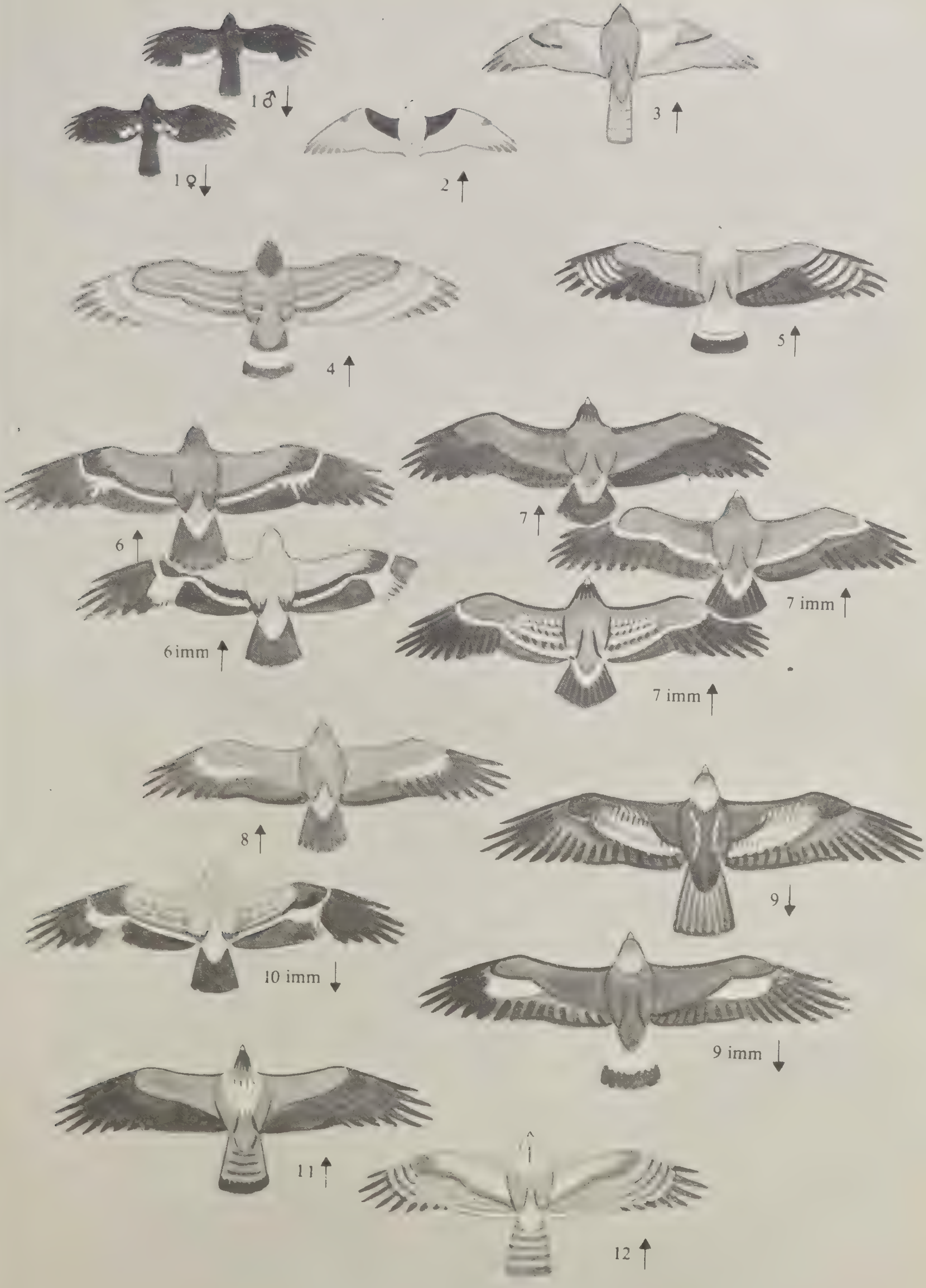
168. **(8)** TAWNY EAGLE *Aquila rapax vindhiana*
See Plate 26

169. **(6)** EASTERN STEPPE EAGLE *Aquila rapax nipalensis*
See Plate 26

170. **(7)** GREATER SPOTTED EAGLE *Aquila clanga*
See Plate 26

196. **(4)** CRESTED SERPENT EAGLE *Spilornis cheela*
See Plate 20

EL. **(5)** ROUGHLEGGED BUZZARD *Buteo lagopus*
See Plate 24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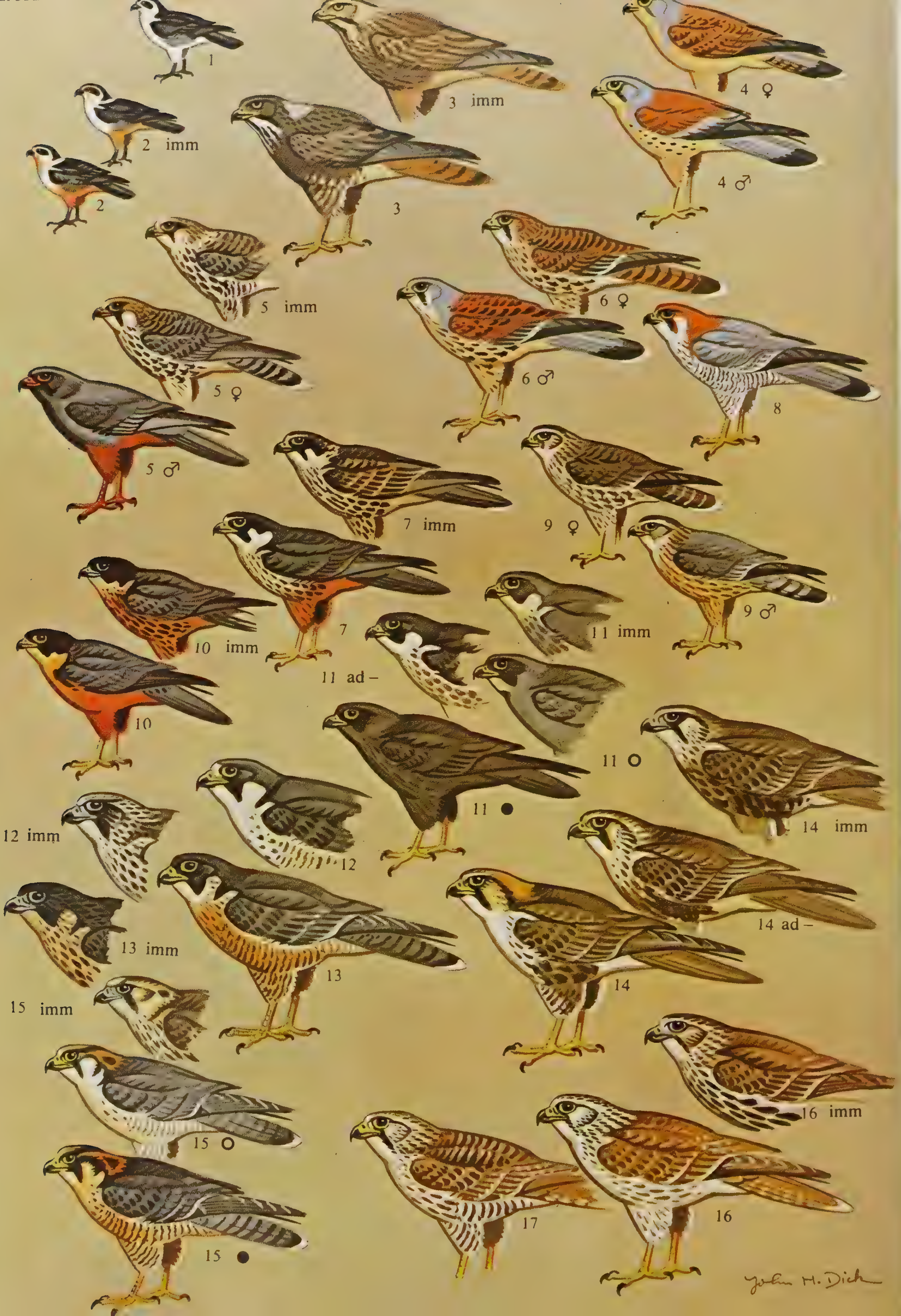
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John H. Dick

PLATE 29

157. **(3)** WHITE-EYED BUZZARD-EAGLE *Butastur teesa* R Crow ± : 43 cm. Open dry forest, scrub and cultivation. Subcontinent. Absent Sri Lanka.

204. **(2)** REDBREASTED FALCONET *Microhierax caerulescens* R Bulbul ± : 18 cm. Outskirts of forest and cultivation clearings up to c. 2000 m. E Himalayan foothills and Assam.

205. **(1)** WHITELEGGED FALCONET *Microhierax melanoleucos* R Bulbul ± : 20 cm. Outskirts of forest and cultivation clearings up to c. 1500 m. Assam and the hill states south of the Brahmaputra.

206. **(16)** SAKER or CHERRUG (LANNER) FALCON *Falco biarmicus cherrug* M Kite – : 50-56 cm. Desert and semi-desert. Pakistan and NW India in Haryana and Rajasthan; also recorded in Delhi district (winter)

207. **(17)** SHANGHAR FALCON *Falco biarmicus milvipes* M Kite – : 50-58 cm. Pakistan, NW India, Nepal (winter). Rare.

208. **(14)** LAGGAR FALCON *Falco biarmicus jugger* M Kite – : 43-46 cm. Dry open country and cultivation. Subcontinent. Absent Sri Lanka.

209. **(12)** PEREGRINE FALCON *Falco peregrinus japonensis* M Kite – ; Crow + : 40-48 cm. Near rivers, marshes and lagoons. Subcontinent (winter).

211. **(13)** SHAHEEN FALCON *Falco peregrinus peregrinator* R Kite – ; Crow + : 38-46 cm. Rugged hilly country. Subcontinent.

212. **(7)** HOBBY *Falco subbuteo* RM Pigeon ± : 31-34 cm. Open wooded country and semi-desert. Pakistan, Nepal, Bangladesh and India south to Belgaum.

215. **(10)** ORIENTAL HOBBY *Falco severus* R Pigeon – : 27-30 cm. Well-wooded foothills country. Himalayas; Bangladesh; NE India; c. 1800-2400 m.

216. **(11)** SOOTY FALCON *Falco concolor* V Crow – : 38 cm. Single record from the coast of Baluchistan.

217. **(9)** MERLIN *Falco columbarius* M Pigeon – : 27-30 cm. Scrubby, open country and cultivation. Pakistan and Nepal (winter).

219. **(8)** REDHEADED MERLIN *Falco chicquera* R Pigeon ± : 31-36 cm. Open country with groves of trees and cultivation. Subcontinent.

220. **(5)** REDLEGGED FALCON *Falco vespertinus* (Passage) M Pigeon – : 28-31 cm. Open country and grazing land. NE India, Bangladesh, Sikkim, Bhutan(?), Nepal, the Indian peninsula and Maldive Is. (winter). Breeds (casually) Assam.

221. **(4)** LESSER KESTREL *Falco naumanni* M Pigeon ± : 34 cm. Open savannah country. From Gilgit, Haryana and Nepal to Assam and associated states, south to Maharashtra, Tamil Nadu and Orissa. Perhaps an irregular passage migrant.

222. **(6)** KESTREL *Falco tinnunculus* RM Pigeon ± : 36 cm. Grassland, semi-desert, cultivation and rocky regions. *Breeding:* From NWFP to Baluchistan and Punjab (Pakistan); Himalayas; W and E Ghats; Sri Lanka. *Winter:* Subcontinent.

EL. **(15)** BARBARY FALCON *Falco pelegrinoides* N Africa.

PLATE 30

Falcons in flight (from below)

204. **(3)** REDBREASTED FALCONET *Microhierax caerulescens*
See Plate 29

205. **(1)** WHITELEGGED FALCONET *Microhierax melanoleucos*
See Plate 29

206. **(11)** LANNER (SAKER or CHERRUG) FALCON *Falco biarmicus cherrug*
See Plate 29

208. **(14)** LAGGAR FALCON *Falco biarmicus jugger*
See Plate 29

209. **(13)** PEREGRINE FALCON *Falco peregrinus japonensis*
See Plate 29

211. **(12)** SHAHEEN FALCON *Falco peregrinus peregrinator*
See Plate 29

212. **(10)** HOBBY *Falco subbuteo*
See Plate 29

215. **(9)** ORIENTAL HOBBY *Falco serverus*
See Plate 29

216. **(8)** SOOTY FALCON *Falco concolor*
See Plate 29

217. **(6)** MERLIN *Falco columbarius*
See Plate 29

219. **(7)** REDHEADED MERLIN *Falco chicquera*
See Plate 29

220. **(5)** REDLEGGED FALCON *Falco vespertinus*
See Plate 29

221. **(2)** LESSER KESTREL *Falco naumanni*
See Plate 29

222. **(4)** KESTREL *Falco tinnunculus*
See Plate 29

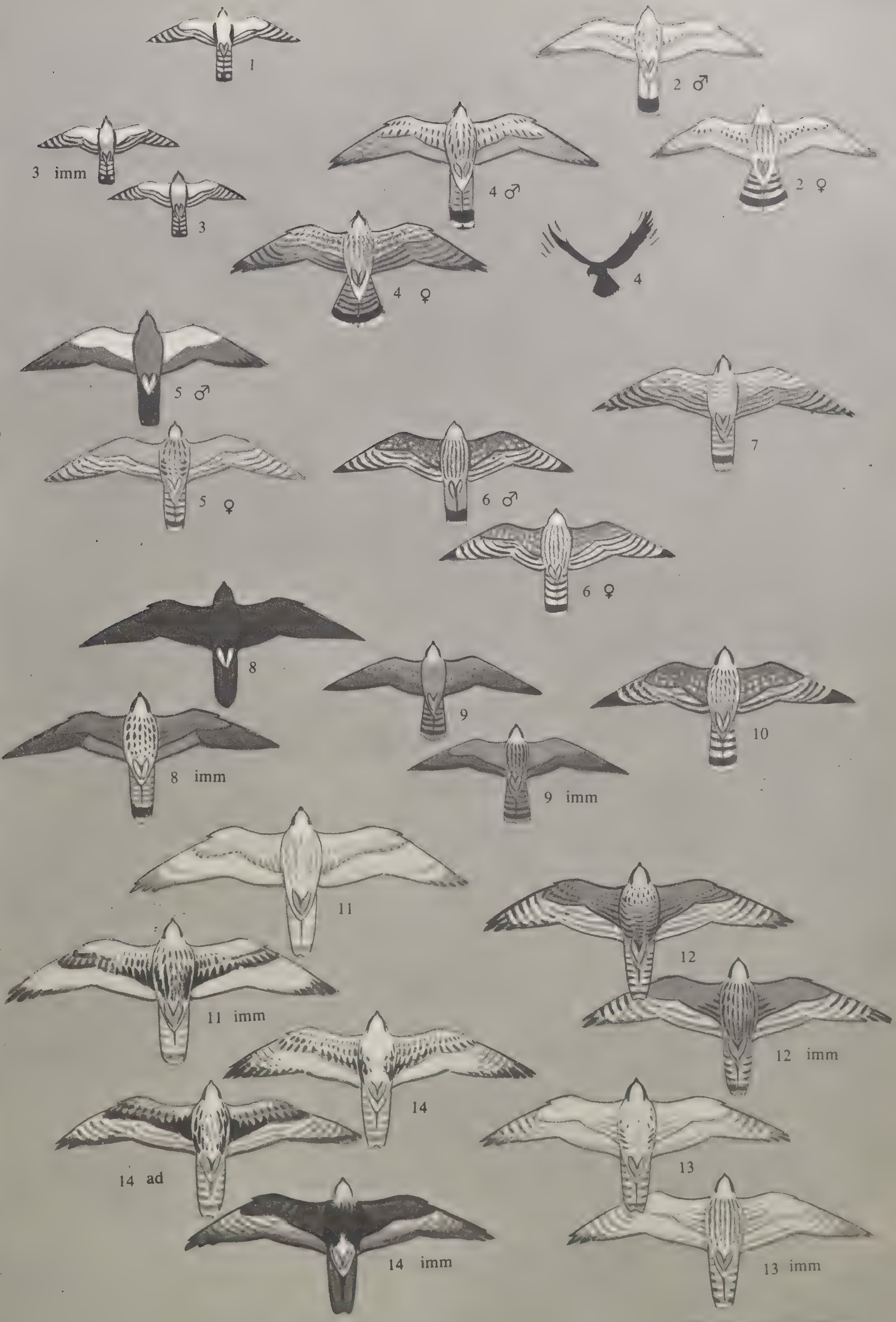
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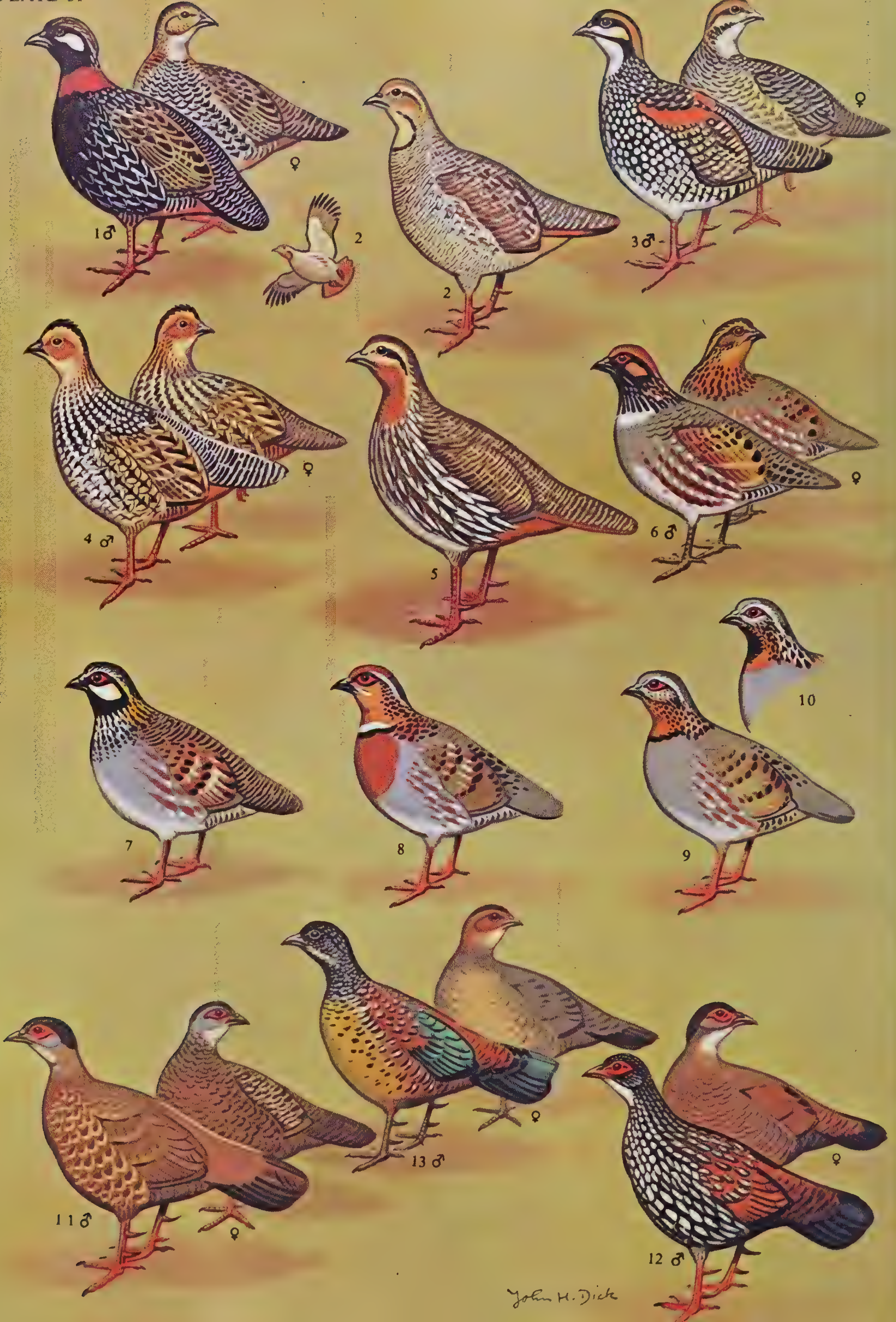
PLATE 37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John H. Dick

PLATE 31

238. **(1)** BLACK PARTRIDGE *Francolinus francolinus* R 34 cm. Well-watered tracts with tall grass and scrub, sugarcane fields and wet cultivation. Pakistan and N India from Punjab and Kashmir east through Nepal to Bangladesh, Bhutan, Assam and associated NE States; from Himalayan foothills south to N Gujarat, N. Madhya Pradesh and N Orissa.

241. **(4)** PAINTED PARTRIDGE *Francolinus pictus* R 31 cm. Dry grass and scrub. Peninsular India, Sri Lanka. Absent in humid tracts of Karnataka and Kerala.

243. **(3)** CHINESE FRANCOLIN *Francolinus pintadeanus* R 33 cm. Low scrub and grassy openings in forest. SE Manipur State.

246. **(2)** GREY PARTRIDGE *Francolinus pondicerianus* R 33 cm. Thorn-scrub, dry light jungle, cultivation environs. Subcontinent; Sri Lanka. Introduced to Andaman Is.

247. **(5)** SWAMP PARTRIDGE or KYAH *Francolinus gularis* R Partridge + : 37 cm. Swampy grass jungle. N India from the Kumaon terai and Uttar Pradesh, east through N Bihar, Bangladesh, Sunderbans and NE India.

267. **(6)** COMMON HILL PARTRIDGE *Arborophila torqueola* R Partridge – : 28 cm. Dense evergreen jungle. Himalayas from Garhwal east; Assam and associated States; between 600 and 4000 m.

270. **(9)** RUFOUSTHROATED HILL PARTRIDGE *Arborophila rufogularis* R Partridge – : 27 cm. Dense secondary scrub and undergrowth in evergreen forest. E Himalayas, seasonally between c. 700 and 2400 m.

271. **(10)** Ssp *intermedia* of 270. NE hill states, c. 600-1800 m.

272. **(7)** WHITENECKED HILL PARTRIDGE *Arborophila atrogularis* R Partridge –: 28 cm. Undergrowth in wet evergreen forest and bamboo jungle. From Arunachal Pradesh south through the hills south of the Brahmaputra to Sylhet and the Chittagong region (Bangladesh), up to c. 1500 m.

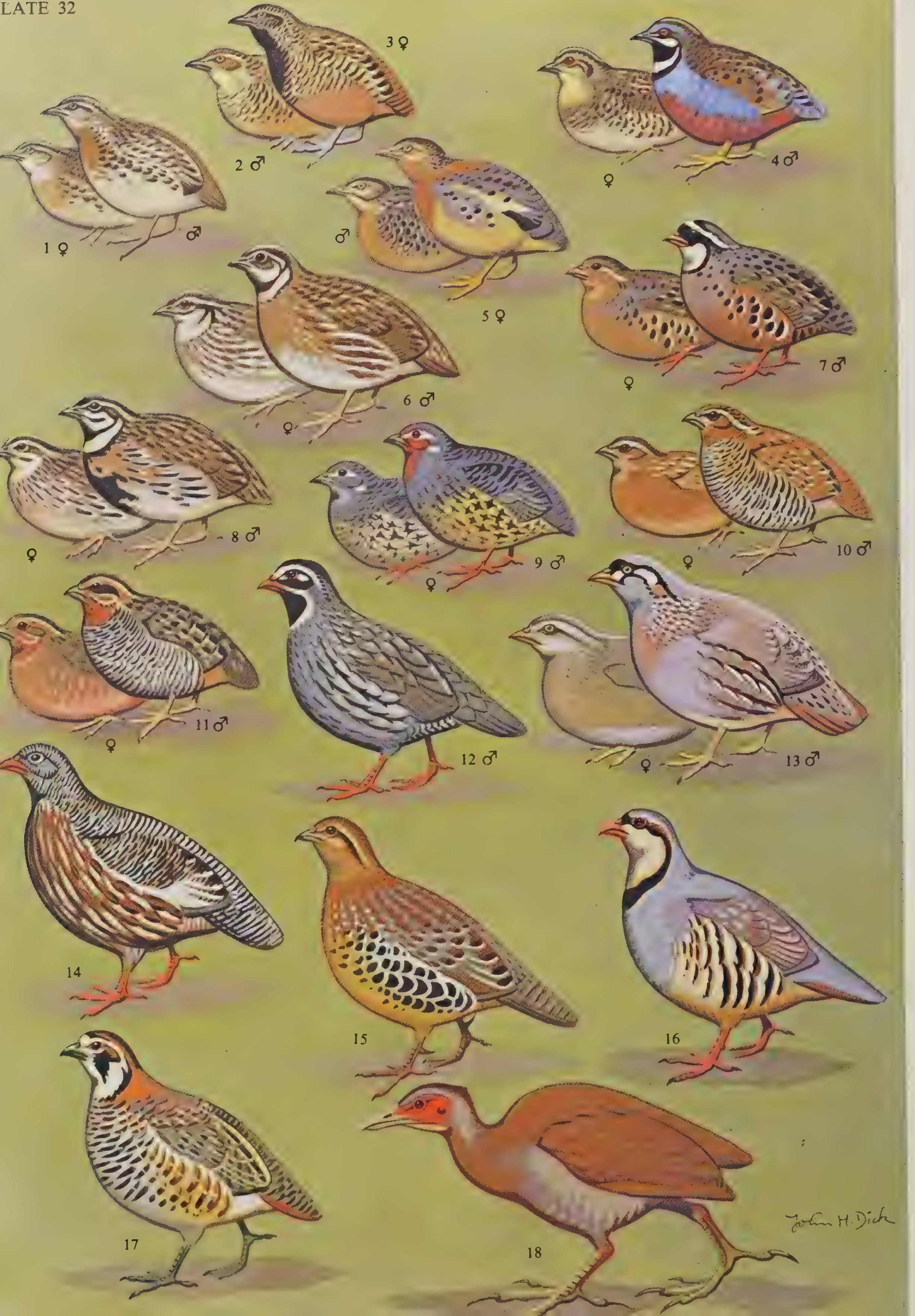
273. **(8)** REDBREASTED HILL PARTRIDGE *Arborophila mandellii* Partridge – : 28 cm. Undergrowth in evergreen forest. Sikkim, Bhutan and Arunachal Pradesh; 350-2500 m.

275. **(11)** RED SPURFOWL *Galloperdix spadicea* R Partridge + : 36 cm. Dry- and moist-deciduous scrub, in broken hilly country; up to c. 1000 m. From Rajasthan, Uttar Pradesh, Nepal terai and Bihar, south to Tamil Nadu, Karnataka and Kerala; Gujarat.

278. **(13)** PAINTED SPURFOWL *Galloperdix lunulata* R 32 cm. Dense thorn scrub and bamboo jungle in broken terrain and rocky foothills. India south of the Gangetic plain from c. Gwalior in the west and Bengal in the east; up to c. 1000 m.

279. **(12)** CEYLON SPURFOWL *Galloperdix bicalcarata* R Partridge + : 34 cm. Dense forest. Wet and dry zones, upto c. 2000 m. Sri Lanka.

LATE 32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John H. Dick

PLATE 32

225. **(18)** MEGAPODE *Megapodius freycinet* R Village hen ± : 43 cm. Undergrowth in dense forest fringe and sandy seashore above spring-tide mark. Nicobar Is. only.

227. **(14)** SNOW PARTRIDGE *Lerwa lerwa* R Partridge + : 38 cm. Alpine meadows, open bush-covered hillsides above tree-line. Himalayas, c. 3000 and 5000 m.

228. **(13)** SEESEE PARTRIDGE *Ammoperdix griseogularis* R Partridge – : 26 cm. Stony foothills. Pakistan from Baluchistan and NWFP to the Salt Range, and the Kirthar hills of Sind.

236. **(16)** CHUKAR PARTRIDGE *Alectoris chukar* R Partridge + : 38 cm. Rocky hillsides with grass and sparse bushes. Pakistan mountains and W Himalayas, 1000-5000 m.

249. **(17)** TIBETAN PARTRIDGE *Perdix hodgsoniae* R Partridge ± : 31 cm. Furze, dwarf juniper and rhododendron scrub on stony hillsides. Ladakh, Kumaon, Nepal east to Bhutan, c. 3500-5500 m.

250. **(6)** GREY QUAIL *Coturnix coturnix* RM Partridge – : 20 cm. Grassland and standing crops. *Breeding:* Pakistan east through N India and Bangladesh, from Himalayan foothills south to Maharashtra. *Winter:* Rest of Subcontinent; not Sri Lanka.

252. **(8)** BLACKBREASTED or RAIN QUAIL *Coturnix coromandelica* R Quail – : 18 cm. Grass and scrub, moist grassland and standing crops. Subcontinent up to c. 2000 m. Sri Lanka occasional, winter.

253. **(4)** BLUEBREASTED QUAIL *Coturnix chinensis* R Quail – : 14 cm. Swampy grassland and grass-and-scrub. Subcontinent east and south of a line Bombay to Simla; Sri Lanka; Nicobar Is.

255. **(11)** JUNGLE BUSH QUAIL *Perdicula asiatica* R Quail – : 17 cm. Grass-and-scrub jungle and open deciduous secondary forest. Practically entire Subcontinent, plains and hills up to c. 1250 m. Sri Lanka.

261. **(10)** ROCK BUSH QUAIL *Perdicula argoondah* R Quail – : 17 cm. Open semi-desert and thorn-scrub country, preferably drier and stonier facies than Jungle Bush Quail's but often overlapping. Practically entire Subcontinent; not Sri Lanka.

263. **(7)** PAINTED BUSH QUAIL *Perdicula erythrorhyncha* R Quail – : 16 cm. Low hilly deciduous biotope. Bihar, W Bengal, Orissa, W Madhya Pradesh and E Maharashtra; W Ghats from Khandala southward to Kerala.

265. **(9)** MANIPUR BUSH QUAIL *Perdicula manipurensis* R Quail ± : 20 cm. Damp grasslands. N Bengal, NE Bangladesh, Assam and the hills south of the Brahmaputra, from Meghalaya and Nagaland south to Manipur and the mountain ranges of Chittagong.

274. **(15)** BAMBOO PARTRIDGE *Bambusicola fytchii* R Partridge + : 35 cm. Open scrub and edges of cultivation. The hills south of the Brahmaputra from the Lakhimpur district south to Sylhet and the Chittagong region. Up to c. 2000 m.

280. **(12)** MOUNTAIN QUAIL *Ophrysia superciliosa* Extinct? Partridge – : 25 cm. Grass and brushwood on steep Himalayan hillsides in the Dehra Dun-Naini Tal region, c. 1650-2000 m.

313. **(1)** LITTLE BUSTARD-QUAIL *Turnix sylvatica* R Quail – : ♂ 13 cm; ♀ slightly larger. Grass-and-scrub jungle. From the Punjab Salt Range to Nagaland, Manipur and Chittagong, and from Nepal and Sikkim south to Kerala. Sri Lanka? Upto c. 2400 m.

314. **(5)** YELLOWLEGGED BUTTON QUAIL *Turnix tanki* R Quail – : ♂ 15 cm; ♀ slightly larger. Grassland with scrub, bamboo jungle and standing crops. Entire Subcontinent east of Sind and NWFP of Pakistan.

318. **(2)** COMMON BUSTARD-QUAIL *Turnix suscitator* R Quail – : ♂ 15 cm; ♀ slightly larger. Grassland and scrub jungle, and open light deciduous forest. Entire Subcontinent in suitable biotope.

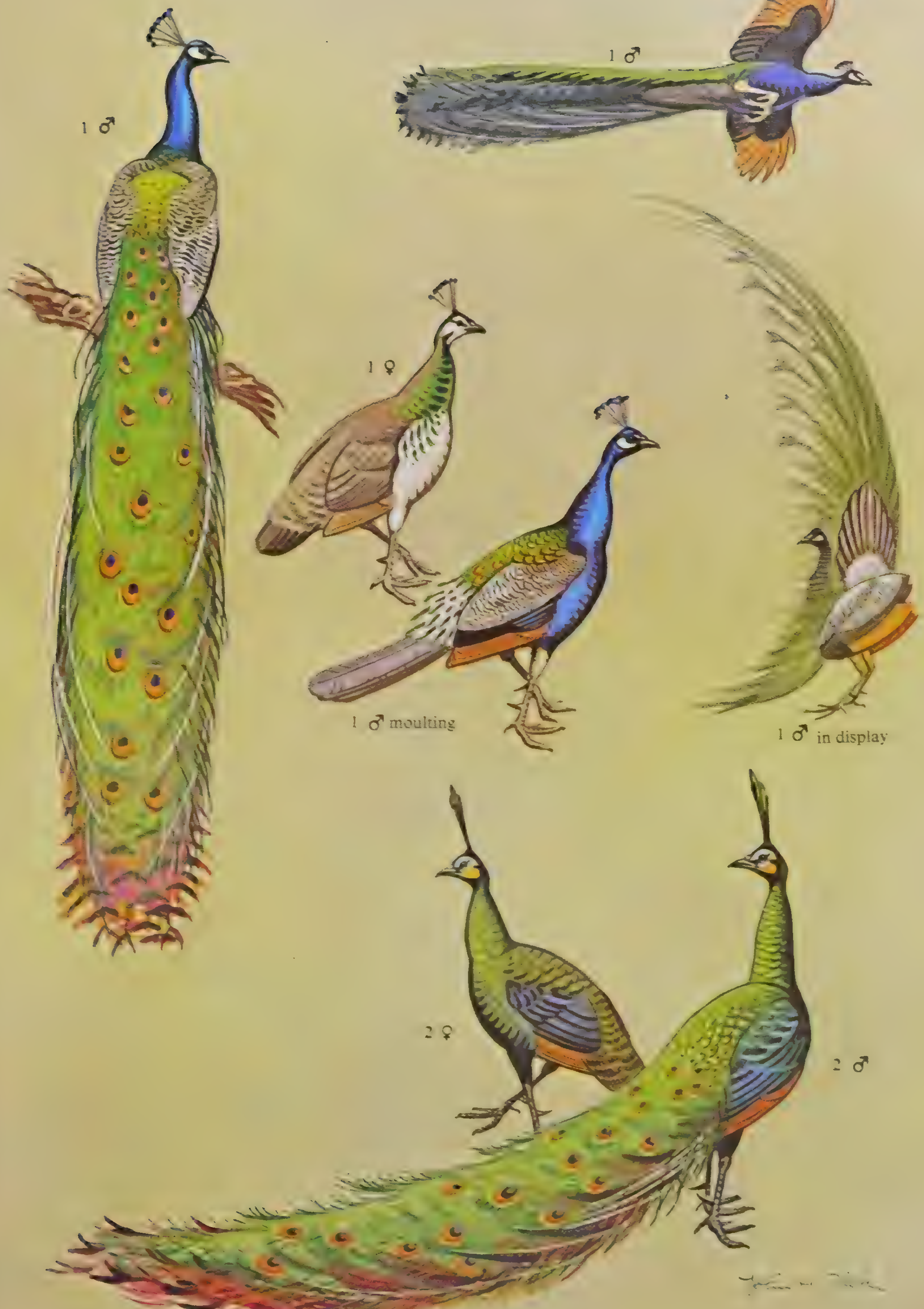
319. **(3)** Sri Lanka ssp. *leggei* of 318.

PLATE 33

311. **(1)** COMMON PEAFOWL *Pavo cristatus* R Village hen + : ♂ c. 92-122 cm without train, c. 2-2.5 m in full plumage; ♀ 86 cm. Moist- and dry-deciduous forest, cultivation and precincts of villages. Subcontinent east of the Indus, up to c. 1800 m; Sri Lanka. Introduced in Sind and Andaman Is.

312. **(2)** BURMESE PEAFOWL *Pavo muticus* R Village hen + : ♂ c.92-122 cm without train, c. 2-2.5 m in full plumage; ♀ 86 cm. Dense evergreen and moist-deciduous forest. NE hill states, Bangladesh (Chittagong region) and N Bengal; up to c.1000 m.

PLATE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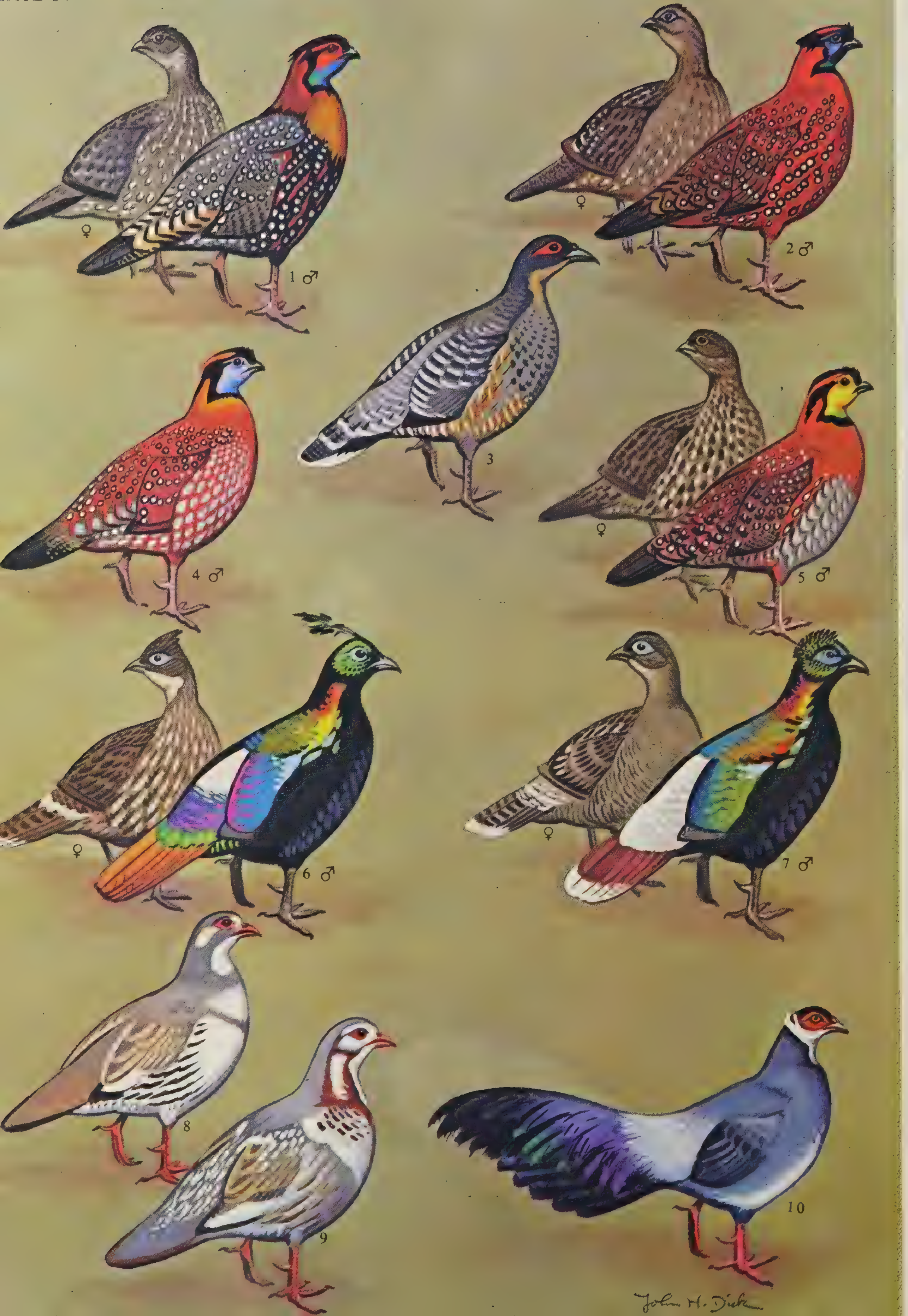
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John H. Dick

PLATE 34

229. **(8)** TIBETAN SNOWCOCK *Tetraogallus tibetanus* R Village hen + : 70 cm. Stony slopes and alpine meadows above timber-line. Himalayas from Ladakh and Rupshu east, up to 5800 m.

232. **(9)** HIMALAYAN SNOWCOCK *Tetraogallus himalayensis* R Village hen + : 72 cm. Stony slopes and alpine meadows above timber-line. W Himalayas, between c. 4000 and 5500 m.

233. **(3)** PHEASANT-GROUSE *Tetraophasis szechenyii* R Village hen ± : 64 cm. Rocky scrub-covered ravines. Subalpine zone, N Arunachal Pradesh c. 3400-4600 m.

285. **(1)** WESTERN TRAGOPAN *Tragopan melanocephalus* R Village hen + : 71 cm. Dense rhododendron, ringal bamboo and other undergrowth in conifer or oak forest. W Himalayas from Swat in Pakistan east through Kashmir, Ladakh, Himachal Pradesh and Garhwal; seasonally between c. 1500 and 3600 m.

286. **(2)** CRIMSON or SATYR TRAGOPAN *Tragopan satyra* R Village hen ± : ♂ 68 cm; ♀ 59 cm. Rhododendron, bamboo and other undergrowth in conifer or oak forest. Himalayas from Garhwal east to Bhutan and W Arunachal Pradesh; seasonally between c. 2000 and 4500 m.

288. **(5)** BLYTH'S or GREYBELLIED TRAGOPAN *Tragopan blythii* R Village hen ± : ♂ 68 cm; ♀ 59 cm. Dense undergrowth in evergreen forest. Arunachal Pradesh hills south of the Brahmaputra from the Patkai range through Nagaland and Manipur to Mizoram; seasonally between c. 1800 and 3300 m.

289. **(4)** TEMMINCK'S TRAGOPAN *Tragopan temminckii* R Village hen ± : 64 cm. Dense undergrowth in evergreen hill forest. Arunachal Pradesh, c. 2100-3500 m.

290. **(6)** IMPEYAN or MONAL PHEASANT *Lophophorus impejanus* R Village hen + : 72 cm. Rhododendron and other undergrowth in open conifer forest interspersed with grassy glades, and the scrub zone above timber-line. Himalayas, c. 2500-5000 m.

291. **(7)** SCLATER'S MONAL *Lophophorus sclateri* R Village hen + : 72 cm. Dense rhododendron undergrowth in conifer forest. Subalpine zone of Arunachal Pradesh between 92° and 93°E long.; c. 3000-4000 m.

292. **(10)** EARED PHEASANT *Crossoptilon crossoptilon* R Village hen + : 72 cm. Rhododendron and juniper undergrowth in conifer forest interspersed with grassy hill-slopes. Arunachal Pradesh Himalayas; c. 3500-5000 m.

PLATE 35

282. **(5)** BLOOD PHEASANT *Ithaginis cruentus* R Village hen ± : 46 cm. Dwarf rhododendron, juniper and ringal bamboo undergrowth in conifer forest. Subalpine zone of E Himalayas, seasonally between c. 2600 and 4700 m.

294. **(4)** KALIJ PHEASANT *Lophura leucomelana* R Village hen ± 60-68 cm. Foothills forest with heavy scrub undergrowth; partial to neighbourhood of water and terraced cultivation. Himalayas; NE hill states; Bangladesh: c. 400-3500 m.

299. **(6)** RED JUNGLEFOWL *Gallus gallus* R Village hen ± : ♂ 66 cm; ♀ 43 cm. Moist-deciduous forest and scrub jungle interspersed with cultivation. Himalayan foothills; NE hill states; N and NC India; Bangladesh.

301. **(9)** GREY or SONNERAT'S JUNGLEFOWL *Gallus sonneratii* R Village hen ± : ♂ 60-80 cm; ♀ 46 cm. Dry-deciduous to moist-evergreen biotope: broken country interspersed with cultivation patches. Chiefly W peninsular India and south of a line Mt Abu-Pachmarhi-mouth of the Godavari.

302. **(8)** CEYLON JUNGLEFOWL *Gallus lafayettii* Endemic. Village hen ± : ♂ 66-72 cm; ♀ 36 cm. All types of forest; lowland to highest hills. Sri Lanka.

304. **(1)** KOKLAS PHEASANT *Pucrasia macrolopha* R Village hen ± : ♂ 61 cm; ♀ 53 cm. Wooded slopes and nullahs in oak and conifer forest. Himalayas from NWFP (Pakistan) eastward to W Nepal; seasonally between c. 1500 and 4000 m.

307. **(2)** CHIR PHEASANT *Catreus wallichii* R Village hen + : ♂ 90-118 cm; ♀ 61-76 cm. Open conifer and deciduous forest interspersed with steep grassy slopes. W Himalayas, c. 1500-2700 m.

308. **(7)** MRS HUME'S BARREDBACK PHEASANT *Syrmaticus humiae* R Village hen + ♂ 90 cm; ♀ 60 cm. Open forest interspersed with grassy and bracken covered slopes. NE hill states, from the Patkai Hills and Barail Range south through Nagaland and Manipur to Mizoram; c. 900-2000 m.

310. **(10)** PEACOCK-PHEASANT *Polyplectron bicalcaratum* R Village hen ± : ♂ 64 cm; ♀ 48 cm. Dense evergreen jungle, duars and foothills. E Himalayas from Sikkim through Arunachal Pradesh; NE hill states, south to the Chittagong hill tracts (Bangladesh).

EL. **(3)** COMMON PHEASANT *Phasianus colchicus* Temperate Asia. Introduction being tried in Bhutan.

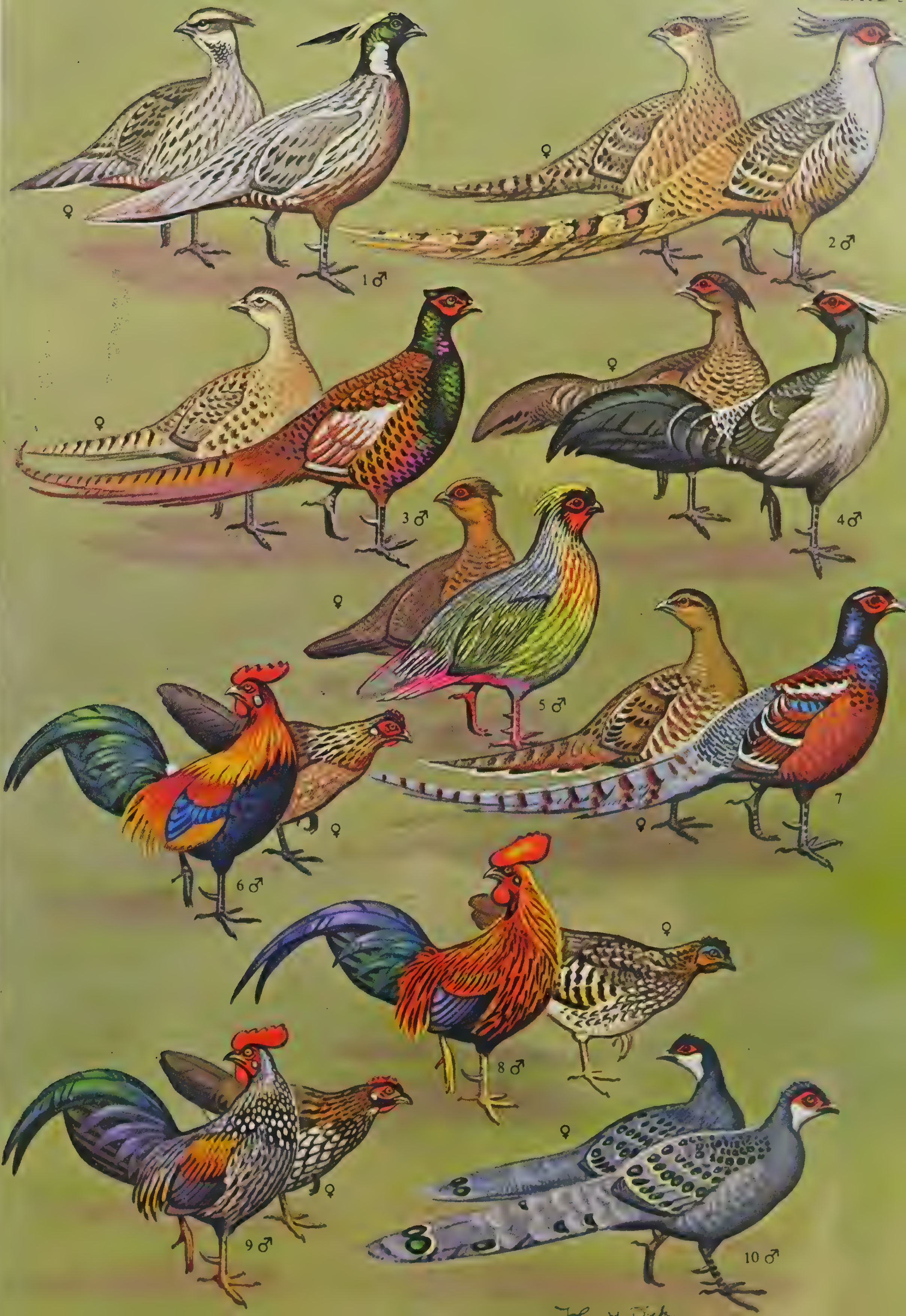
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PLATE 36

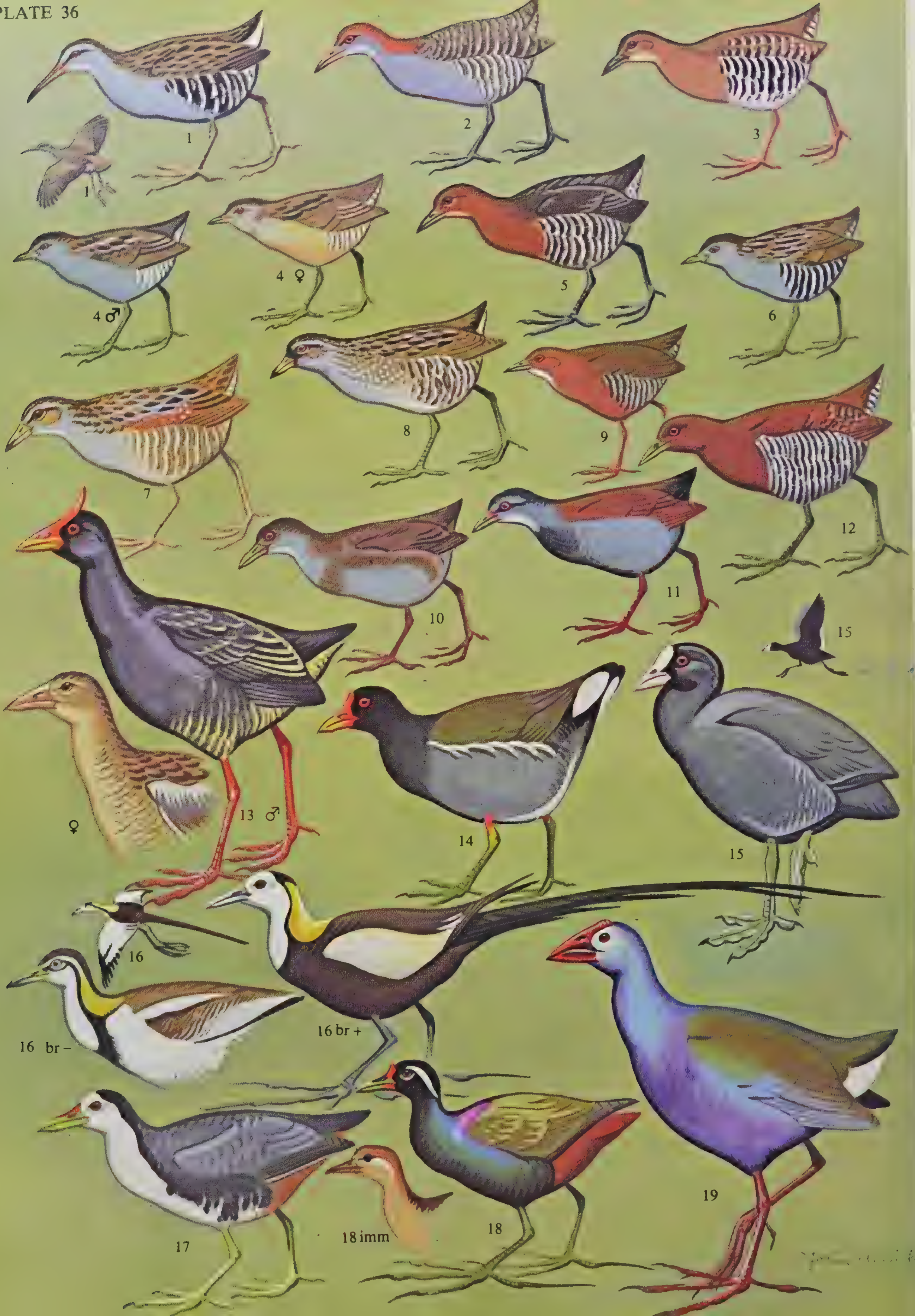
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PLATE 36

327. **(1)** WATER RAIL *Rallus aquaticus* RM Partridge – : 28 cm. Reedy marshes. *Breeding:* Kashmir and Ladakh(?). *Winter:* Pakistan, NW and N India to Assam. Sri Lanka (vagrant).

329. **(2)** BLUEBREASTED BANDED RAIL *Rallus striatus* R Partridge – : 27 cm. Reedy swamps, mangroves, paddyfields. Subcontinent minus Pakistan; Andaman and Nicobar Is.

331. **(3)** REDLEGGED BANDED CRAKE *Rallina fasciata* R(?) Quail + : 23 cm. Dense forest. Recorded only from Assam (N Cachar).

332. **(5)** BANDED CRAKE *Rallina eurizonoides* RM Quail + : 25 cm. Dense jungle in well-watered country. Subcontinent. Sri Lanka (winter).

333. **(12)** ANDAMAN BANDED CRAKE *Rallina canningi* R Partridge + : 34 cm. Marshy jungle. Andaman Is.

334. **(7)** CORN CRAKE *Crex crex* V Partridge – : 25 cm. Only four records: Gilgit, Sri Lanka.

335. **(4)** LITTLE CRAKE *Porzana parva* M Quail ± : 20 cm. Swampy reed-beds. Pakistan and W Peninsular India.

337. **(6)** BAILLON'S CRAKE *Porzana pusilla* RM Quail ± : 19 cm. Swampy reed-beds, irrigated crops, etc. *Breeding:* Kashmir, Uttar Pradesh. *Winter:* Subcontinent.

338. **(8)** SPOTTED CRAKE *Porzana porzana* M Quail + : 23 cm. Marshy reed-beds. Subcontinent except extreme south.

339. **(9)** RUDDY CRAKE *Porzana fusca* R Quail + : 22 cm. Marshes, flooded ricefields, etc. Subcontinent.

341. **(11)** ELWES'S CRAKE *Amaurornis bicolor* R Quail + : 22 cm. Swampy dense grass jungle around ponds and streams. Nepal to Arunachal Pradesh; NE hill states south to Bangladesh; from foothills to c. 2800 m.

342. **(10)** BROWN CRAKE *Amaurornis akool* R Partridge – : 28 cm. Marshes and grassy margins of streams. From Kashmir east to Assam and associated states; Manipur; Bangladesh; Peninsular India minus extreme south.

343. **(17)** WHITEBREASTED WATERHEN *Amaurornis phoenicurus* R Partridge ± : 32 cm. Marshes, ponds and ricefields. Subontinent.

346. **(13)** WATER COCK *Gallicrex cinerea* R Partridge + : ♂ 43 cm; ♀ 36 cm. Marshes, ponds, ricefields, etc. Subcontinent east of the Indus.

347. **(14)** MOORHEN *Gallinula chloropus* RM Partridge + : 32 cm. Jheels, marshes, ponds, etc. Subcontinent.

349. **(19)** PURPLE MOORHEN *Porphyrio porphyrio* R Village hen ± : 43 cm. Marshy reed-beds, flooded ricefields, etc. Subcontinent.

350. **(15)** COOT *Fulica atra* RM Three-quarter grown duck ± : 42 cm. Large jheels, lakes and reservoirs. Subcontinent.

358. **(16)** PHEASANT-TAILED JACANA *Hydrophasianus chirurgus* R Partridge ± : 31 cm (excluding tail). Jheels and ponds with floating vegetation. Subcontinent.

359. **(18)** BRONZEWINGED JACANA *Metopidius indicus* R Partridge ± : ♂ 28 cm; ♀ 31 cm. Jheels and ponds with floating vegetation. Subcontinent.

PLATE 37

352. **(2)** GREAT BUSTARD *Otis tarda* V Vulture + : 102 cm. Cultivation. Pakistan (Chitral, Peshawar, N Baluchistan and N Sind). Less than a dozen records.

353. **(1)** LITTLE BUSTARD *Otis tetrax* M Village hen ± : 46 cm. Grassland and cultivation. Mainly NW Pakistan.

354. **(5)** GREAT INDIAN BUSTARD *Choriotis nigriceps* R Vulture + : ♂ 122 cm; ♀ 92 cm. Grassland with scrub, and semi-desert. Formerly from the Indus river to Bengal and south to Tamil Nadu; now chiefly Rajasthan, Gujarat, Maharashtra, Madhya Pradesh and the Deccan south to Karnataka.

355. **(4)** HOUBARA *Chlamydotis undulata* RM Village hen ± : standing c. 60 cm; ♂ 73 cm; ♀ 66 cm. Sandy semi-desert. *Breeding:* Baluchistan. *Winter:* the rest of of Pakistan, Rajasthan, Kutch and Saurashtra.

356. **(3)** BENGAL FLORICAN *Eupodotis bengalensis* R Village hen ± : standing 55 cm; ♂ 66 cm; ♀ slightly larger. Low lying wet grassland with bushes. Kumaon and Nepal terai, N Bengal and Bhutan duars, Arunachal Pradesh, Assam, Meghalaya, Bangladesh (Chittagong region).

357. **(6)** LIKH or LESSER FLORICAN *Sypheotides indica* R Village hen ± : ♂ 46 cm; ♀ 51 cm. Grassland with bushes and cultivation. Pakistan and India, seasonally in Sind, Punjab, Rajasthan, Gujarat, Madhya Pradesh, south to Karnataka and Tamil Nadu.

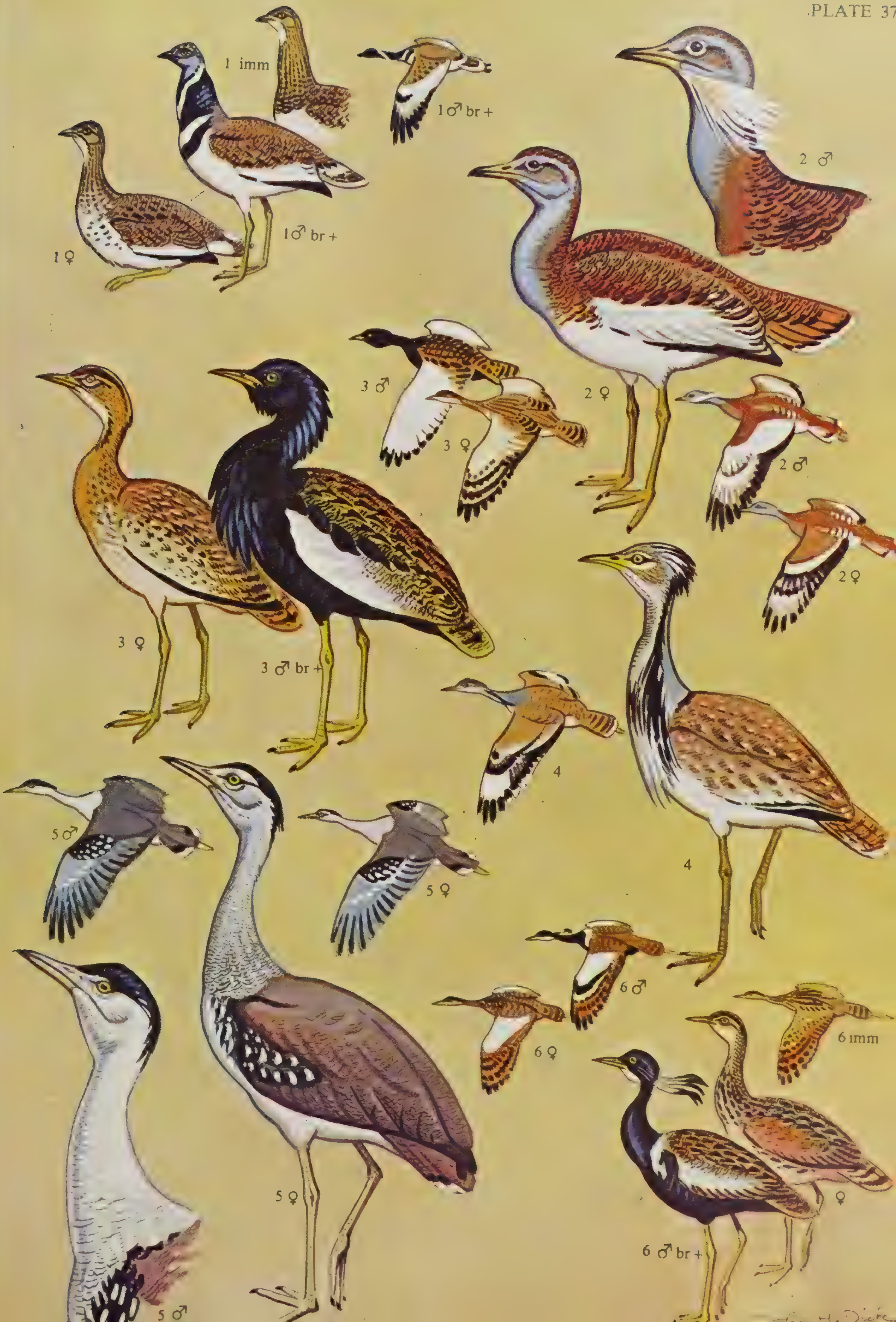
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PLATE 38

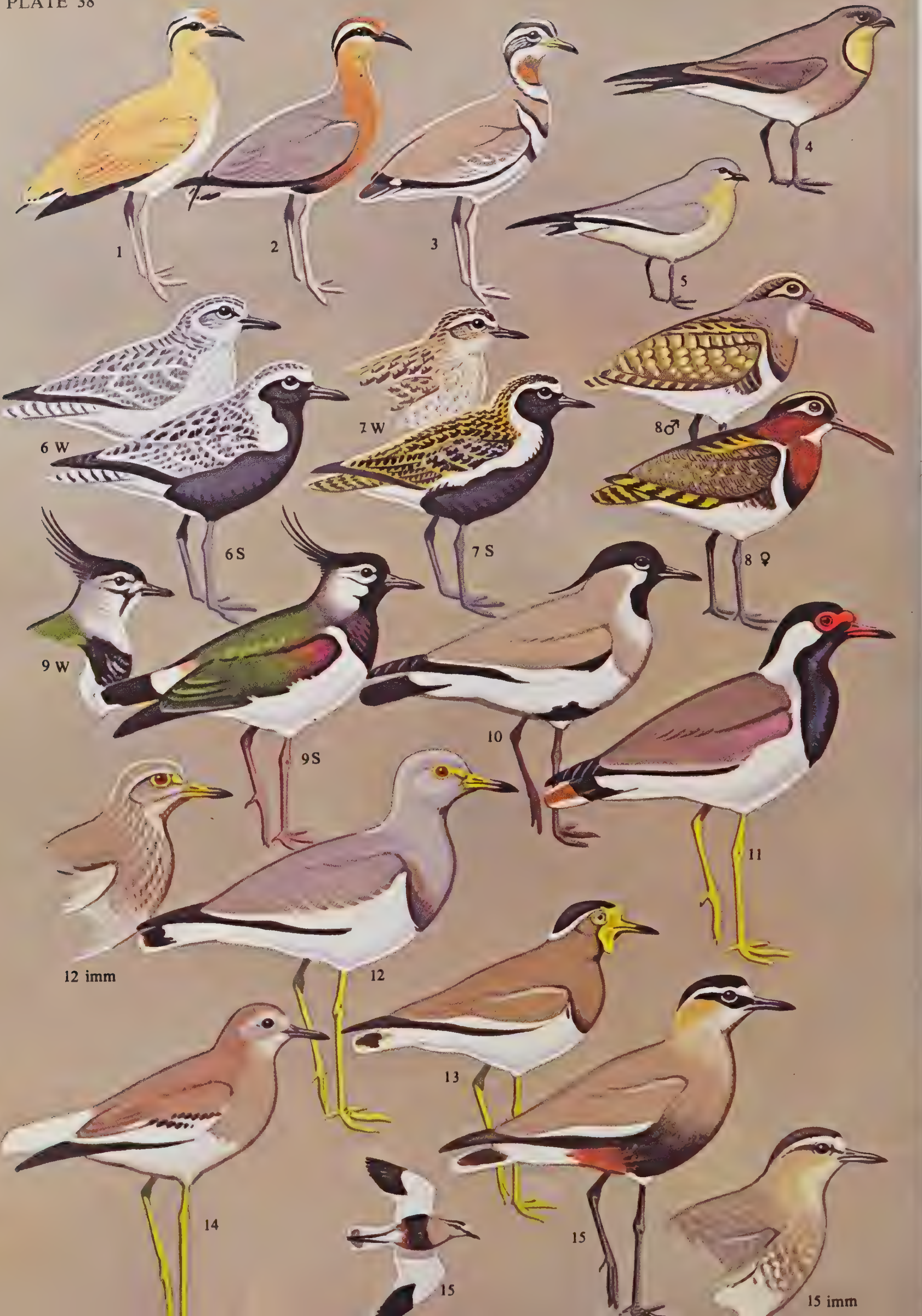
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PLATE 38

362. **(14)** WHITETAILED LAPWING *Vanellus leucurus* M Partridge – : 28 cm. Along jheel edges. Pakistan and N India east to Bangladesh, south to Gujarat and N Madhya Pradesh.

363. **(15)** SOCIABLE LAPWING *Vanellus gregarius* M Partridge ± : 33 cm. Dry wasteland, ploughed fields and stubbles. Pakistan and N India east to W Bengal, south through Rajasthan and Gujarat.

364. **(9)** LAPWING *Vanellus vanellus* M Partridge ± : 31 cm. Fallow land, stubbles and marshland bordering cultivation. Pakistan and NW India east to U.P., Nepal, Bangladesh, Assam and Manipur.

365. **(12)** GREYHEADED LAPWING *Vanellus cinereus* M Partridge + : 37 cm. Wet ground, marshes, ploughed fields and stubbles. Nepal valley, Bihar, Bangladesh, Assam and associated states, and Manipur.

366. **(11)** REDWATTLED LAPWING *Vanellus indicus* R Partridge + : 33 cm. Near water in open country and cultivation. Subcontinent.

369. **(10)** SPURWINGED LAPWING *Vanellus spinosus* R Partridge ± : 31 cm. Sandbanks and shingle beds of rivers. Manipur, Assam and associated states, Bangladesh, Bhutan and N India west to Haryana; Madhya Pradesh south to the Godavari river.

370. **(13)** YELLOW-WATTLED LAPWING *Vanellus malabaricus* R Partridge – : 27 cm. Waste land, stubbles and fallow fields in dry biotope. Subcontinent.

371. **(6)** GREY, or BLACKBELLIED PLOVER *Pluvialis squatarola* M Partridge ± : 31 cm. Sandy seashores, tidal creeks and mudflats; less commonly inland. Subcontinent.

373. **(7)** EASTERN GOLDEN PLOVER *Pluvialis dominica* M Quail ± : 19 cm. Muddy shores, ploughed fields and wet grounds. Subcontinent.

429. **(8)** PAINTED SNIPE *Rostratula benghalensis* R Quail + : 25 cm. Reedy marshes and pools. Subcontinent.

439. **(1)** CREAMCOLOURED COURSER *Cursorius cursor* M Partridge – : 23 cm. Desert and semi-desert. Pakistan, Rajasthan and W Gujarat.

440. **(2)** INDIAN COURSER *Cursorius coromandelicus* R Partridge – : 26 cm. Dry stony plains and fallow land. Subcontinent.

441. **(3)** JERDON'S or DOUBLEBANDED COURSER *Cursorius bitorquatus* Extinct (?). Patridge – : 27 cm. Rocky ground with scrub jungle. Formerly the Penner and Godavari valleys in Andhra Pradesh. Last record in 1900.

443. **(4)** COLLARED PRATINCOLE *Glareola pratincola* RM Myna ± : 24 cm. Flood-plains of rivers, and near jheels. *Breeding:* Baluchistan, Sind, N India to W Bengal, Assam; Bangladesh; Sri Lanka. *Winter:* Subcontinent.

444. **(5)** SMALL INDIAN PRATINCOLE *Glareola lactea* R Sparrow + : 17 cm. Large streams, marshes and coastal swamps. Subcontinent east of the Indus river.

PLATE 39

360. **(5)** OYSTERCATCHER *Haematopus ostralegus* M Partridge + : 42 cm. Sandy and rocky seashore. Coast line. Subcontinent.

362. **(4)** WHITETAILED LAPWING *Vanellus leucurus*
See Plate 38

364. **(1)** LAPWING *Vanellus vanellus*
See Plate 38

365. **(3)** GREYHEADED LAPWING *Vanellus cinereus*
See Plate 38

366. **(2)** REDWATTLED LAPWING *Vanellus indicus*
See Plate 38

385. **(9)** WHIMBREL *Numenius phaeopus* M Village hen ± : 43 cm. Seashore and mudflats. Subcontinent.

388. **(13)** CURLEW *Numenius arquata* M Village hen ± : 58 cm. Seashore and mudflats. Subcontinent.

389. **(10)** BLACKTAILED GODWIT *Limosa limosa* M Village hen ± : ♂ 41 cm; ♀ 50 cm. Marshes. Subcontinent.

391. **(11)** BARTAILED GODWIT *Limosa lapponica* M Village hen ± : ♂ 36 cm; ♀ 41 cm. Seashore and mudflats. Coast of Pakistan and W India south to Bombay; also inland (Punjab Salt Range, Bihar); Nicobar Is.

403. **(12)** SNIPEBILLED GODWIT or ASIAN DOWITCHER *Limnodromus semipalmatus* M Partridge + : 34 cm. Seashore and mudflats. Coast of Bangladesh and E India; Chilka Lake (Orissa).

430. **(8)** BLACKWINGED STILT *Himantopus himantopus* R Partridge – : 25 cm. Jheels, lagoons and reservoirs. Subcontinent.

432. **(6)** AVOCET *Recurvirostra avosetta* RM Partridge + : 46 cm. Marshes, lagoons and mudflats, inland and on the sea shore. *Breeding:* N Baluchistan and Kutch. *Winter:* Subcontinent.

433. **(16)** IBISBILL *Ibidorhyncha struthersii* R Partridge + : 41 cm. Shingle banks in large river-beds. Himalayas from Gilgit east; c. 1700-4400 m (summer), lower elevations (winter).

434. **(7)** CRAB PLOVER *Dromas ardeola* M Partridge + : 41 cm. Mudflats and coral reefs. Coast of the Subcontinent.

436. **(14)** STONE CURLEW *Burhinus oedicnemus* R Partridge + : 41 cm. Stony semi-desert. Subcontinent.

437. **(15)** GREAT STONE PLOVER *Esacus magnirostris* R Village hen ± : 51 cm. Rocky river-beds and seacoasts. Subcontinent.

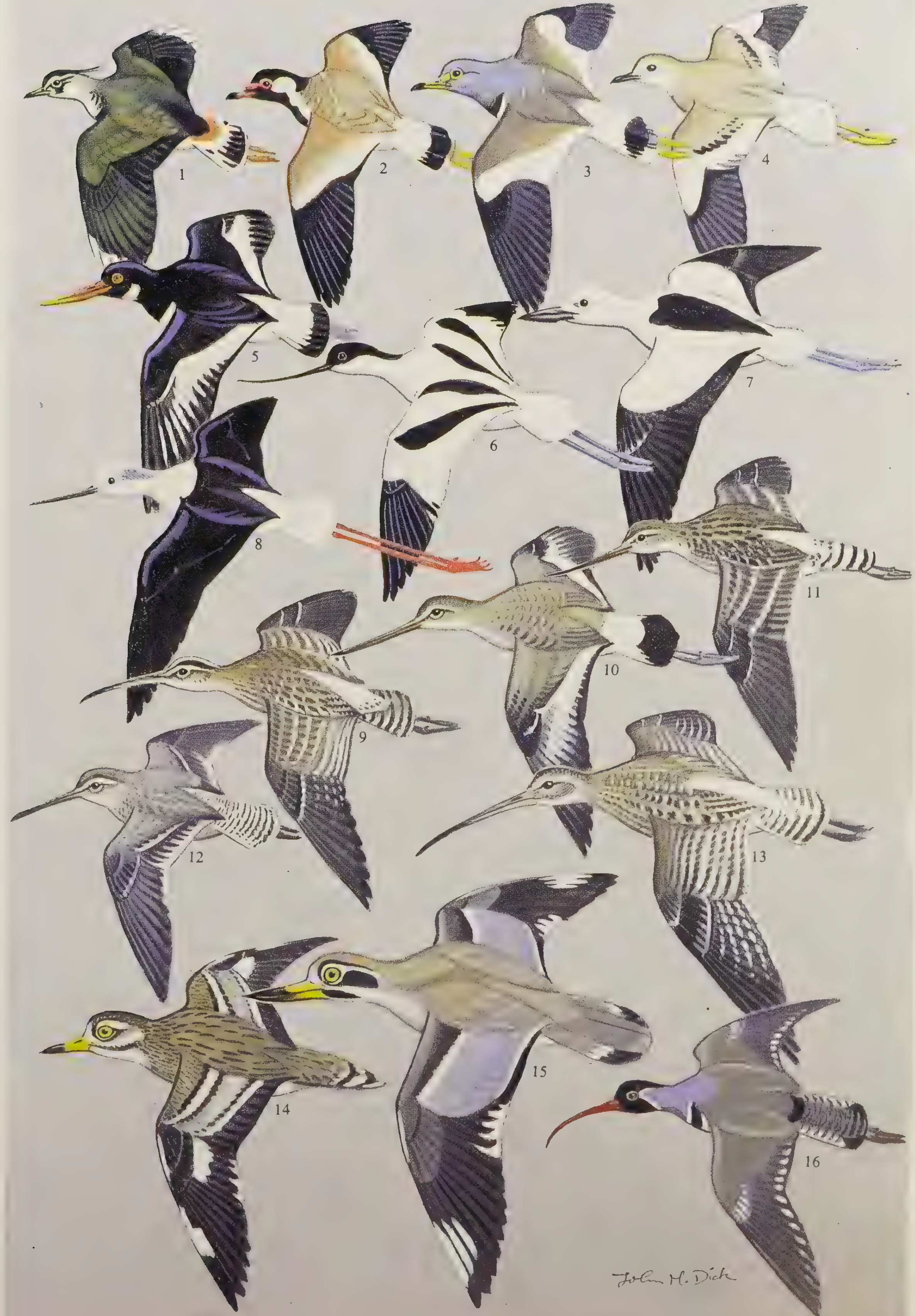
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PLATE 40

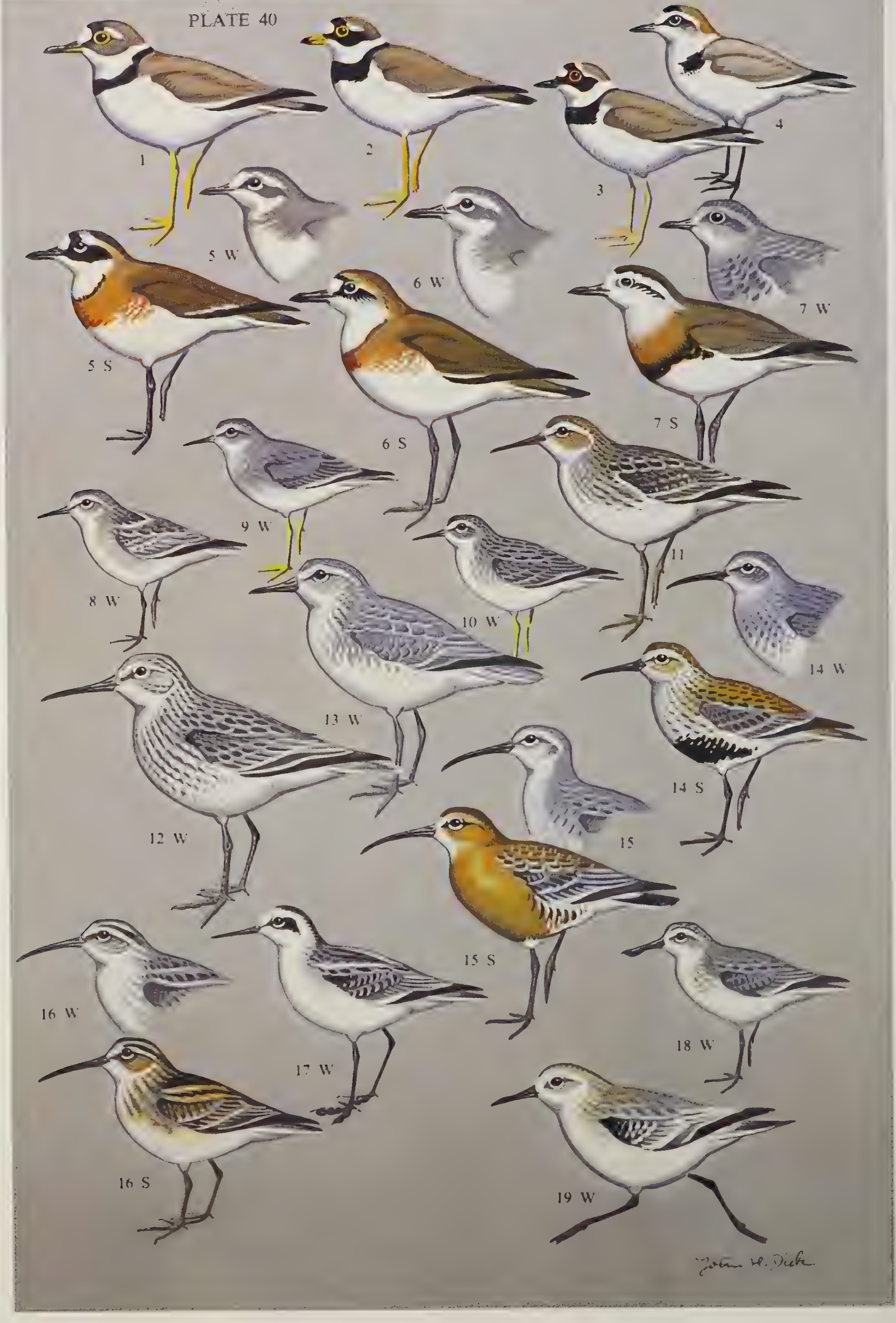
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PLATE 40

374. **(6)** LARGE SAND PLOVER *Charadrius leschenaultii* M Partridge –: 22 cm. Sandy shores and mudflats. Seaboard of the Subcontinent.

376. **(7)** CASPIAN SAND PLOVER *Charadrius asiaticus* V Quail ±: 19 cm. Seacoast and mudflats. Isolated single specimens each from west coast of the peninsula (Ratnagiri), and Sri Lanka, and a pair from Maldive Is.; sight recorded once in the Andamans.

378. **(2)** RINGED PLOVER *Charadrius hiaticula* M (or V?) Quail ±: 19 cm. Only half a dozen records: Gilgit, Delhi, Maldive Is.; Karachi; Jaffna peninsula, Sri Lanka (sight).

380. **(3)** LITTLE RINGED PLOVER *Charadrius dubius* RM Quail –: 17 cm. Shingle beds in rivers, seashore and mudflats. Subcontinent.

381. **(4)** KENTISH PLOVER *Charadrius alexandrinus* RM Quail –: 17 cm. Sandy shores. Subcontinent.

383. **(1)** LONGBILLED RINGED PLOVER *Charadrius placidus* M Quail +: 23 cm. Shingle banks of large rivers. Bengal, Bangladesh, Assam, Bhutan, Sikkim and Nepal.

384. **(5)** LESSER SAND PLOVER *Charadrius mongolus* RM Quail ±: 19 cm. *Summer* (breeding): Stony or sandy plains near lakes, bogs and streams above c. 3400 m. Ladakh, Lahul, Sikkim. *Winter:* Seashore and mudflats. Subcontinent.

412. **(13)** KNOT *Calidris canuta* V Quail +: 25 cm. Mudflats and estuaries. One record each from Baluchistan and Sri Lanka, and two from Tamil Nadu.

413. **(12)** EASTERN KNOT *Calidris tenuirostris* M Partridge –: 29 cm. Tidal mudflats. Pakistan, Lakshadweep and Andaman is; also Assam, Bengal and Tamil Nadu.

414. **(19)** SANDERLING *Calidris alba* M Quail ±: 19 cm. Sandy shores. Coasts of the Subcontinent.

416. **(8)** LITTLE STINT *Calidris minuta* M Quail –: 15 cm. Shores, mudflats and marshes. Subcontinent.

417. **(9)** TEMMINCK'S STINT *Calidris temminckii* M Sparrow ±: 15 cm. Coastal lagoons, tidal mudflats and inland marshes. Subcontinent.

418. **(10)** LONGTOED STINT *Calidris subminuta* M Sparrow ±: 15 cm. Tidal mudflats and inland marshes. Assam, Bangladesh, W Bengal, Bihar, Nepal; Sri Lanka, Maldive and Andaman is.

419. **(11)** ASIAN PECTORAL SANDPIPER *Calidris acuminata* V Quail +: 22 cm. Only two definite records: Gilgit and Sri Lanka.

420. **(14)** DUNLIN *Calidris alpina* M Quail ±: 19 cm. Seashore, mudflats and riverbanks. Pakistan and NW India south to Bombay, and on large rivers of the Gangetic system.

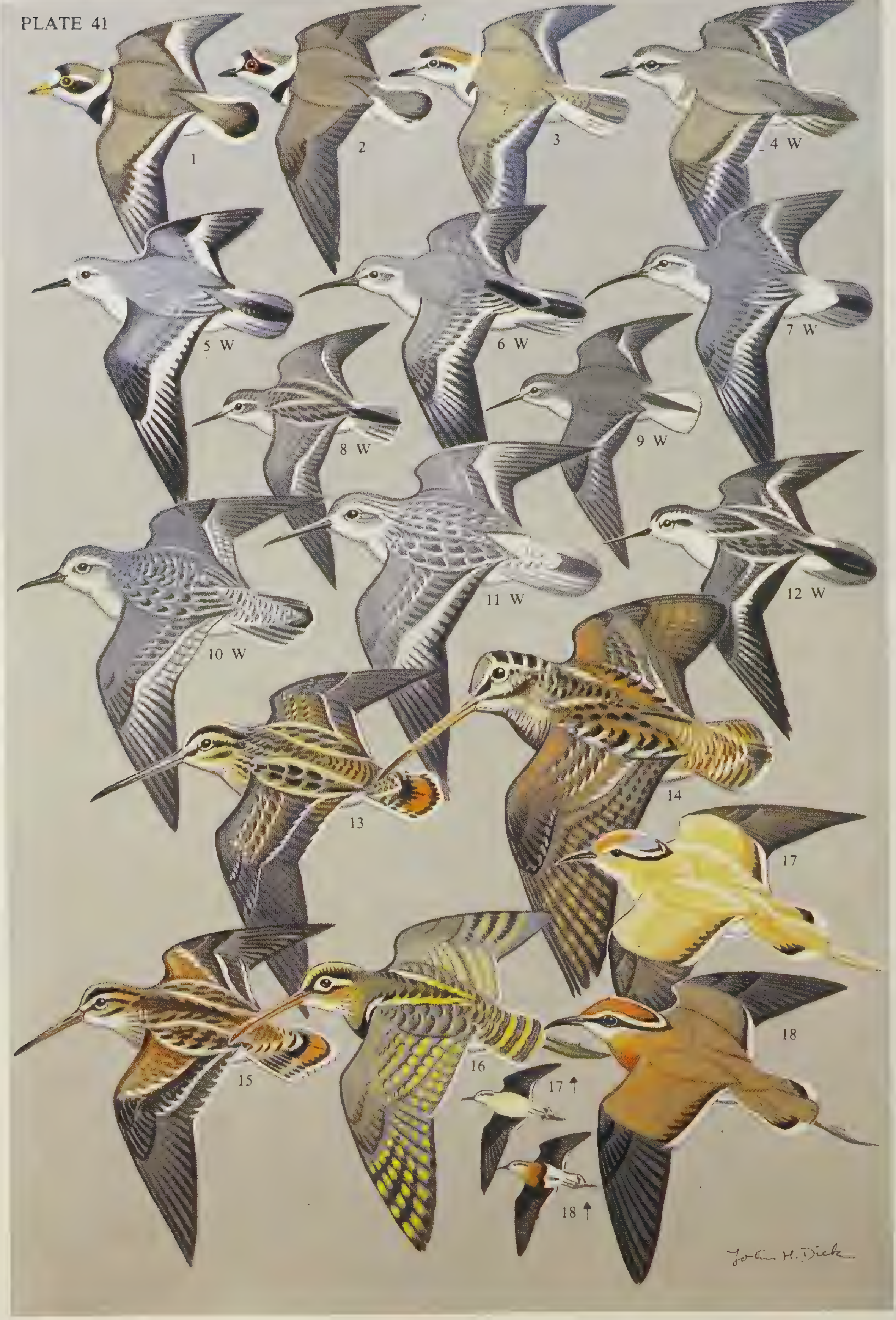
422. **(15)** CURLEW-SANDPIPER *Calidris testacea* M Quail ±: 20 cm. Sea-shore, mudflats and marshes. Subcontinent.

423. **(18)** SPOONBILLED SANDPIPER *Eurynorhynchus pygmeus* Rare M or V(?) Quail –: 17 cm. Seashore and mudflats. Bangladesh, W Bengal, Tamil Nadu (Coromandel coast).

424. **(16)** BROADBILLED SANDPIPER *Limicola falcinellus* M Quail – 17 cm. Seashore, mudflats and river banks. Subcontinent.

428. **(17)** REDNECKED PHALAROPE *Phalaropus lobatus* M Quail ±: ♂ 19 cm; ♀ smaller. Pelagic. Coastal waters, inalnd ponds and jheels. Pakistan and Gujarat. On passage inland (Baluchistan to Bihar) and off the coast of Tamil Nadu. Sri Lanka (one record).

PLATE 41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John H. Dick

PLATE 41

Waders in flight

378. **(1)** RINGED PLOVER *Charadrius hiaticula*
See Plate 39

380. **(2)** LITTLE RINGED PLOVER *Charadrius dubius*
See Plate 40

381. **(3)** KENTISH PLOVER *Charadrius alexandrinus*
See Plate 40

384. **(4)** LESSER SAND PLOVER *Charadrius mongolus*
See Plate 40

406. **(15)** PINTAIL SNIPE *Gallinago stenura* M Quail + : 27 cm. Marshland, paddy stubbles, wet grazing- and fallow land. Subcontinent.

409. **(13)** FANTAIL SNIPE *Gallinago gallinago*
See Plate 43

411. **(14)** WOODCOCK *Scolopax rusticola*
See Plate 43

412 **(13)** KNOT *Calidris canuta*
See Plate 40

413. **(11)** EASTERN KNOT *Calidris tenuirostris*
See Plate 40

414. **(5)** SANDERLING *Calidris alba*
See Plate 40

416. **(8)** LITTLE STINT *Calidris minuta*
See Plate 40

417. **(9)** TEMMINCK'S STINT *Calidris temminckii*
See Plate 40

420. **(6)** DUNLIN *Calidris alpina*
See Plate 40

422. **(7)** CURLEW-SANDPIPER *Calidris testacea*
See Plate 40

428. **(12)** REDNECKED PHALAROPE *Phalaropus lobatus*
See Plate 40

429. **(16)** PAINTED SNIPE *Rostratula benghalensis*
See Plate 38

439. **(17)** CREAMCOLOURED COURSER *Cursorius cursor*
See Plate 38

440. **(18)** INDIAN COURSER *Cursorius coromandelicus*
See Plate 38

PLATE 42

Waders

360. **(1)** OYSTERCATCHER *Haematopus ostralegus*
See Plate 39

385. **(7)** WHIMBREL *Numenius phaeopus*
See Plate 39

388. **(4)** CURLEW *Numenius arquata*
See Plate 39

389. **(5)** BLACKTAILED GODWIT *Limosa limosa*
See Plate 39

391. **(6)** BARTAILED GODWIT *Limosa lapponica*
See Plate 39

403. **(2)** SNIPEBILLED GODWIT or ASIAN DOWITCHER *Limnodromus semipalmatus*
See Plate 39

430. **(8)** BLACKWINGED STILT *Himantopus himantopus*
See Plate 39

432. **(10)** AVOCET *Recurvirostra avosetta*
See Plate 39

433. **(3)** IBISBILL *Ibidorhyncha struthersii*
See Plate 39

434. **(9)** CRAB PLOVER *Dromas ardeola*
See Plate 39

435. **(11)** STONE CURLEW *Burhinus oedicnemus*
See Plate 39

437. **(12)** GREAT STONE PLOVER *Esacus magnirostris*
See Plate 39

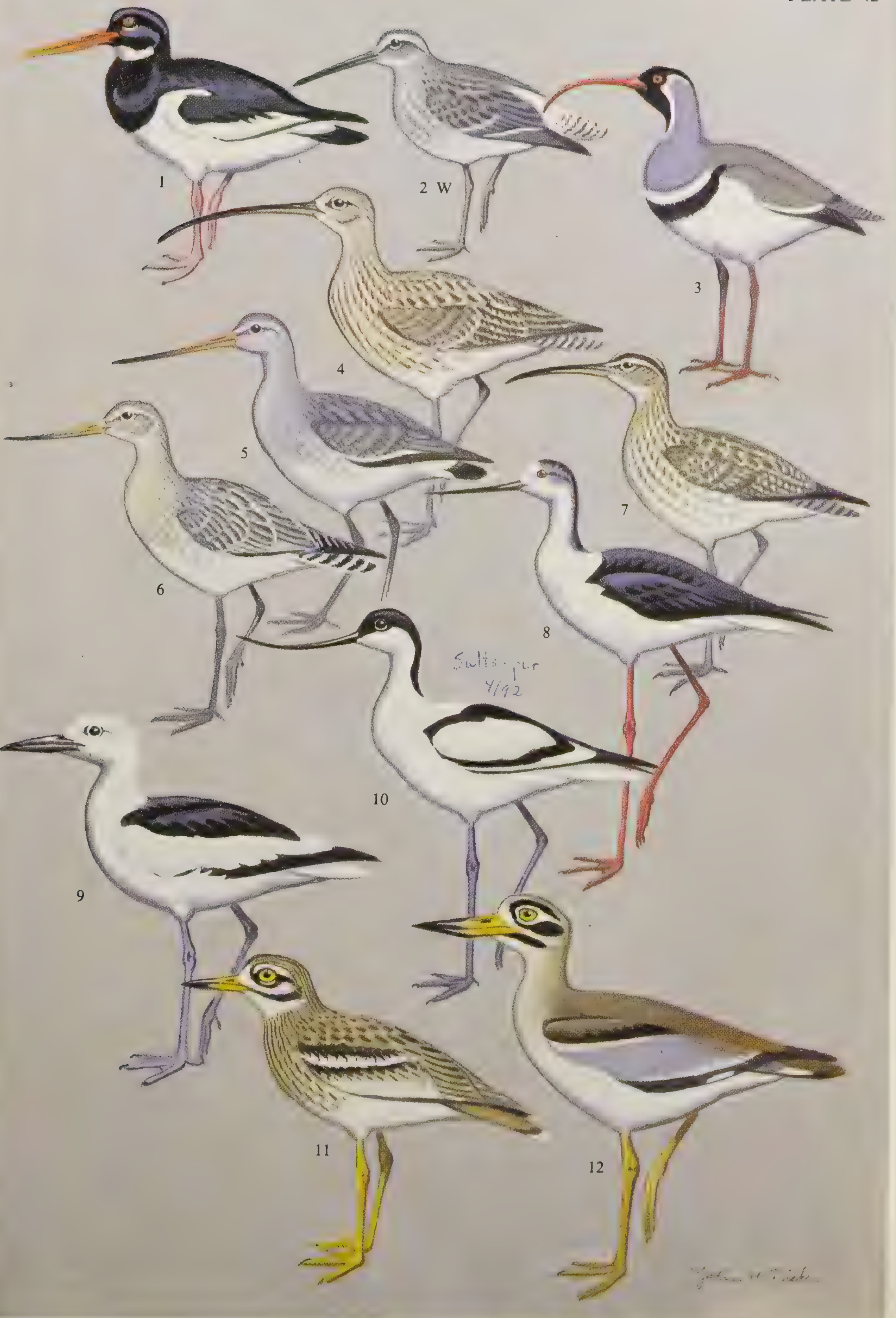
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PLATE 43

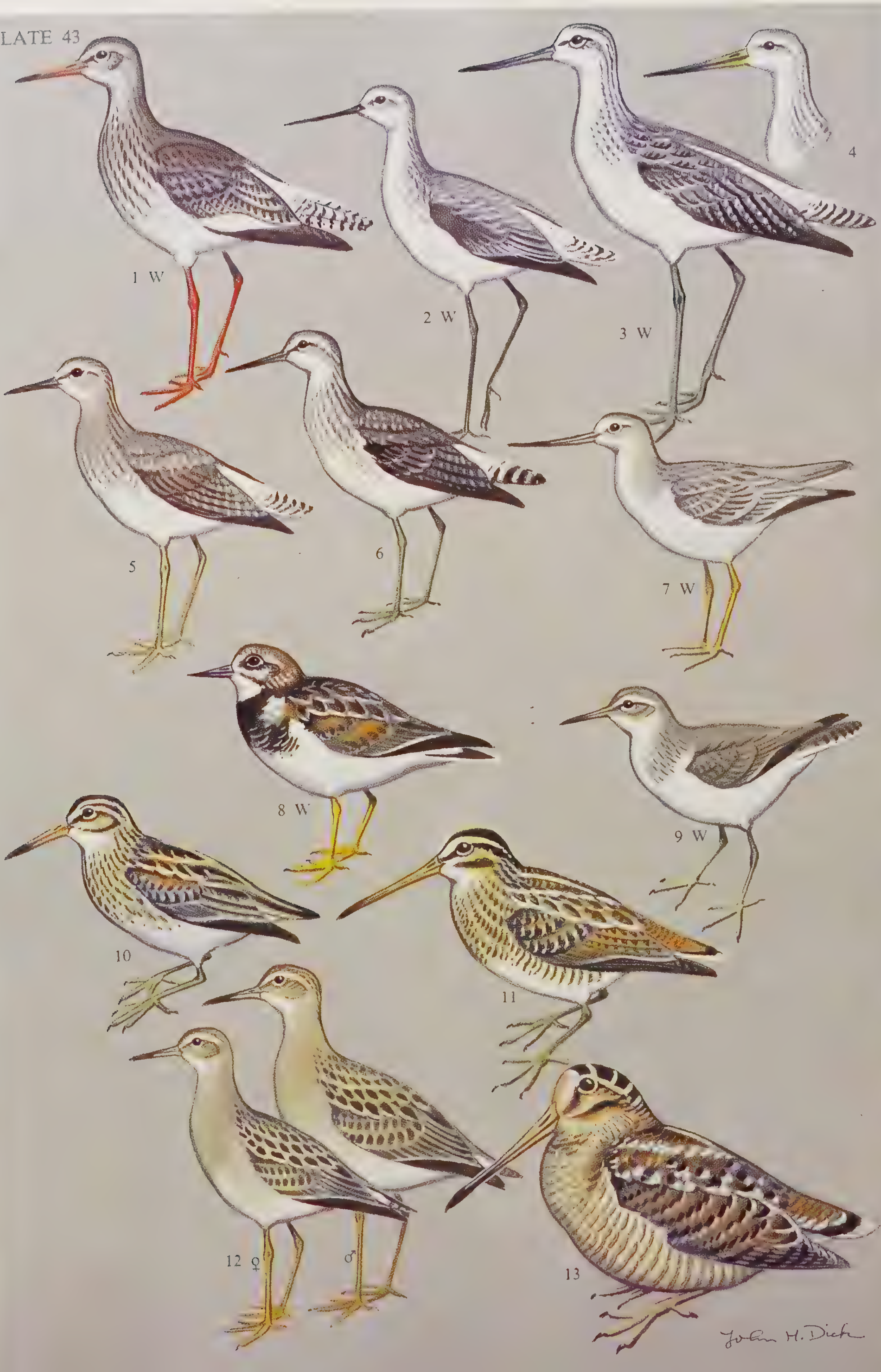
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PLATE 43

393. **(1)** REDSHANK *Tringa totanus* RM Partridge – : 28 cm. Marshes, margins of lakes, river banks and estuaries. *Breeding:* Kashmir and Ladakh. *Winter:* Subcontinent.

395. **(2)** MARSH SANDPIPER *Tringa stagnatilis* M Partridge – : 25 cm. Marshes, margins of ponds, inundated fields and mudflats. Subcontinent.

396 **(3)** GREENSHANK *Tringa nebularia* Partridge + : 36 cm. River banks, margins of ponds, lagoons and mudflats. Subcontinent.

397. **(6)** GREEN SANDPIPER *Tringa ochropus* M Quail + : 24 cm. Marshes, small streams and ponds. Subcontinent.

398. **(5)** WOOD SANDPIPER *Tringa glareola* M Quail ± : 21 cm. Marshes, flooded paddyfields, mudflats. Subcontinent.

399. **(4)** SPOTTED GREENSHANK *Tringa guttifer* M Partridge ± : 33 cm. Sandbars and mudflats in large rivers and near the sea. Bangladesh and NE India.

400. **(7)** TEREK SANDPIPER *Tringa terek* M Quail + : 24 cm. Seashore, mudflats and lagoons. Seaboard of Subcontinent.

401. **(9)** COMMON SANDPIPER *Tringa hypoleucos* RM Quail ± : 21 cm. Gravel bars in rivers; reservoirs, lagoons and seashore. *Breeding:* Kashmir, Ladakh, Garhwal; c. 1800-3200 m. *Winter:* Subcontinent.

402. **(8)** TURNSTONE *Arenaria interpres* M Quail ± : 22 cm. Rocky seashore. Coasts of Subcontinent.

409. **(11)** FANTAIL SNIPE *Gallinago gallinago* RM Quail + : 27 cm. Marshes. *Breeding:* Kashmir, Ladakh and Garhwal. *Winter:* Subcontinent.

410. **(10)** JACK SNIPE *Gallinago minima* M Quail ± : 21 cm. Marshes. Subcontinent.

411. **(13)** WOODCOCK *Scolopax rusticola* RM Partridge + : 36 cm. Dense shady forest and swampy glades. *Breeding:* NWFP and Kashmir to Arunachal Pradesh; c. 2000-4000 m. *Winter:* Nepal, Assam and S Indian hills.

426. **(12)** RUFF and REEVE *Philomachus pugnax* M ♂ Partridge ± : 31 cm; ♀ Quail + : 25 cm. Mudflats, marshes and wet paddy stubbles. Subcontinent.

PLATE 44

Waders in flight

371. **(1)** GREY PLOVER *Pluvialis squatarola*
See Plate 38

372. **(5)** GOLDEN PLOVER *Pluvialis apricaria* V Partridge – : 27 cm. Muddy shores and wet pastures. Odd specimens identified from Pakistan, Uttar Pradesh and Assam.

373. **(7)** EASTERN GOLDEN PLOVER *Pluvialis dominica*
See Plate 38

392. **(9)** SPOTTED or DUSKY REDSHANK *Tringa erythropus* M Partridge ± : 33 cm. Marshes, reservoirs, estuaries. Subcontinent.

393. **(12)** COMMON REDSHANK *Tringa totanus*
See Plate 43

396. **(10)** GREENSHANK *Tringa nebularia*
See Plate 43

397. **(8)** GREEN SANDPIPER *Tringa ochropus*
See Plate 43

398. **(11)** WOOD SANDPIPER *Tringa glareola*
See Plate 43

400. **(14)** TEREK SANDPIPER *Tringa terek*
See Plate 43

401. **(13)** COMMON SANDPIPER *Tringa hypoleucos*
See Plate 43

402. **(6)** TURNSTONE *Arenaria interpres*
See Plate 43

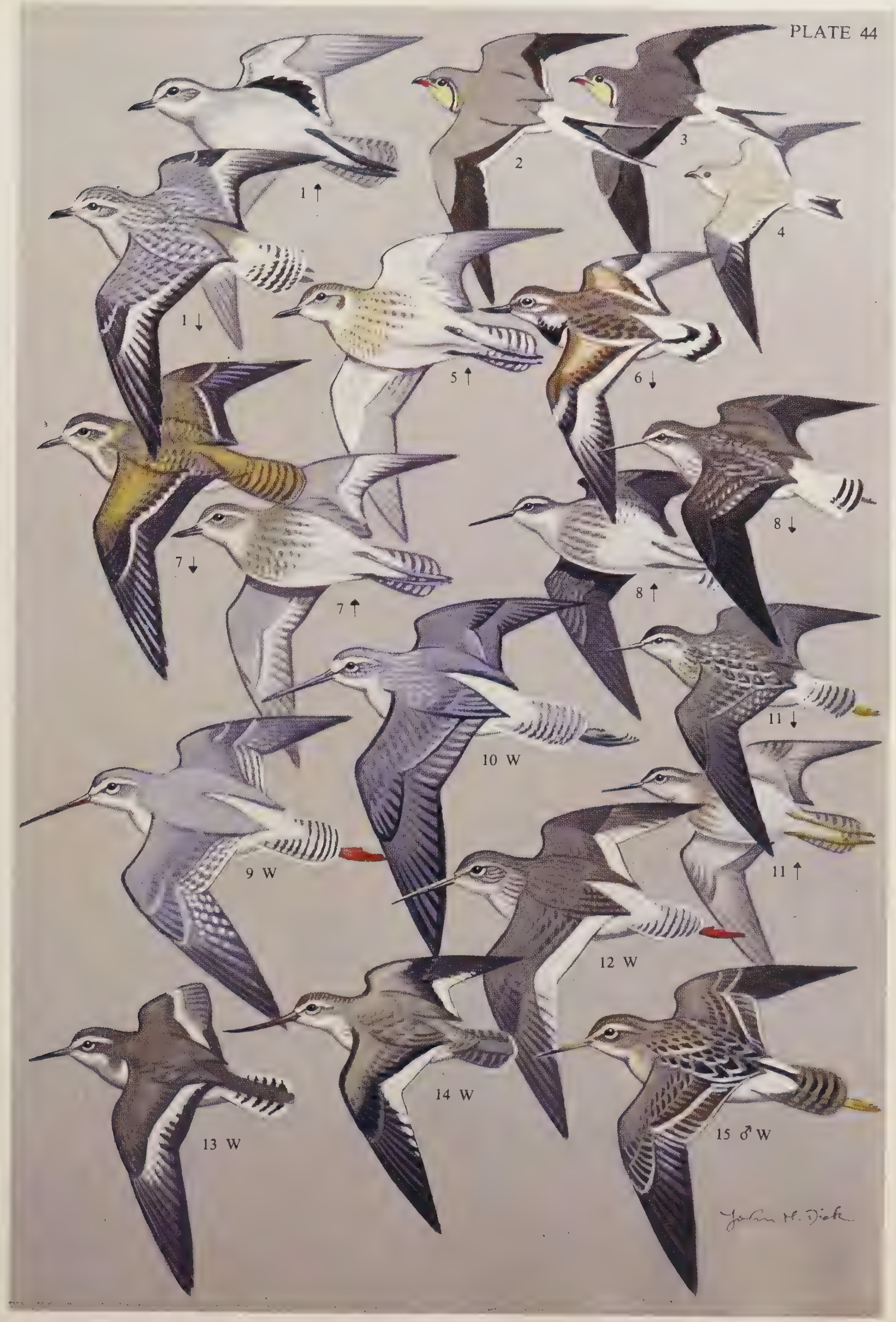
426. **(15)** RUFF and REEVE *Philomachus pugnax*
See Plate 43

442. **(2)** COLLARED PRATINCOLE *Glareola pratincola pratincola* RM Myna ± : 23 cm. Flood-plains near rivers and grazing land by jheels. *Breeding:* Baluchistan and Sind. *Winter:* Allahabad, Ahmedabad, Ratnagiri and Coimbatore.

443. **(3)** (ORIENTAL) COLLARED PRATINCOLE *Glareola pratincola maldivarum*
See Plate 38

444. **(4)** SMALL INDIAN PRATINCOLE *Glareola lactea*
See Plate 38

PLATE 44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John H. Dick

PLATE 45

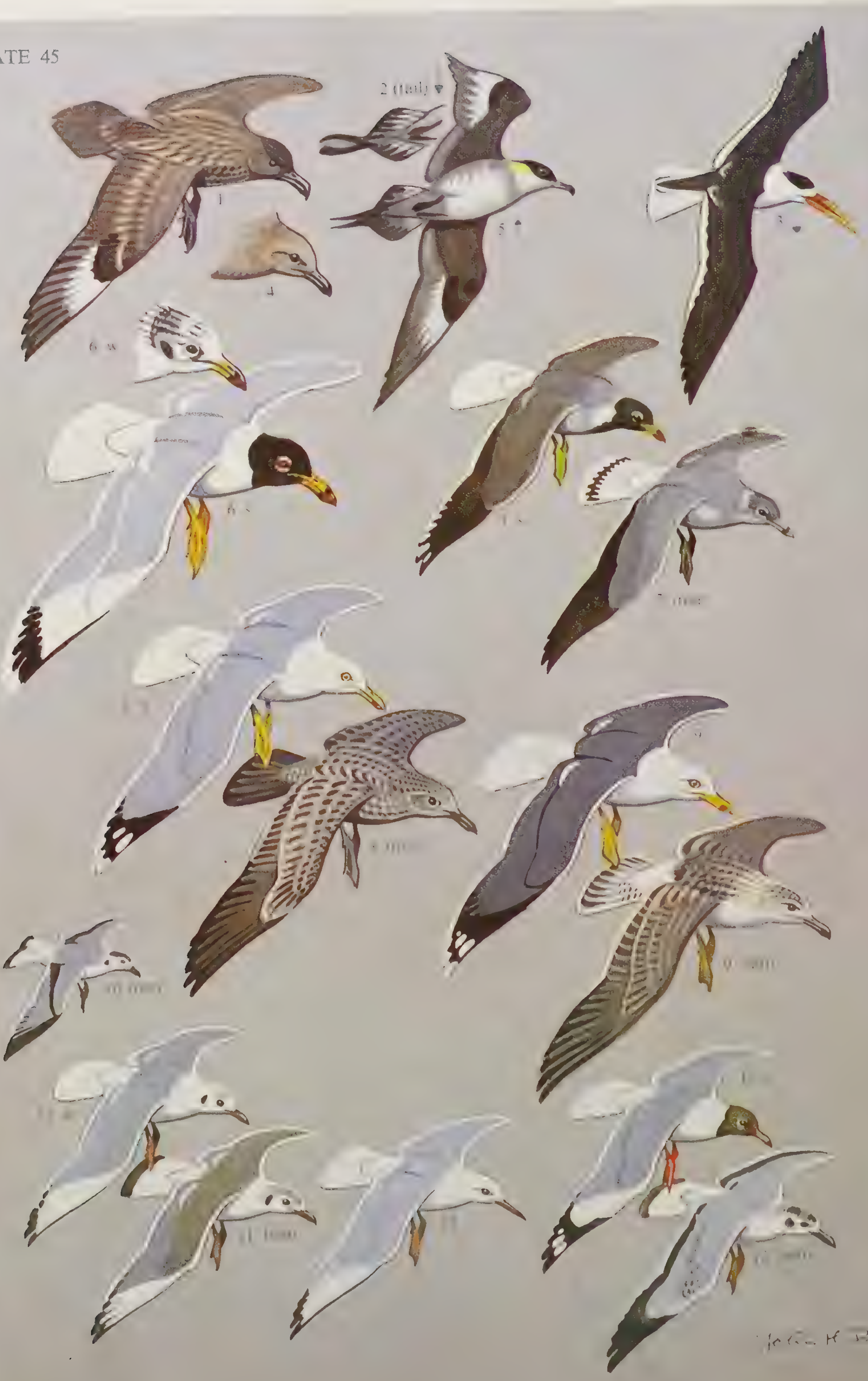
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PLATE 45

445. **(1)** ANTARCTIC SKUA *Catharacta skua antarctica* V Duck ±: 53-61 cm. Five records, Sri Lanka; one possible record, Maldive Is.

446a. **(4)** ANTARCTIC SKUA (MACCORMICK'S SKUA) *Catharacta skua maccormicki* V Duck ±: 53-61 cm. One record each from Sri Lanka and Karnataka.

447. **(2)** POMATORHINE SKUA or JAEGER *Stercorarius pomarinus* V Duck – : 53 cm. Single record, Sri Lanka.

448. **(5)** PARASITIC or RICHARDSON'S SKUA or JAEGER *Stercorarius parasiticus* V (or M?) Duck – : 48 cm. Pakistan and the Arabian Sea.

449. **(7)** SOOTY GULL *Larus hemprichii* M Duck-: 48 cm. Sea coast. Pakistan; Bombay (straggler).

450. **(8)** HERRING GULL *Larus argentatus* M Duck ±: 60 cm. Sea coast and inland lakes. Coasts of Pakistan and India; the Ganges river.

452. **(9)** LESSER BLACKBACKED GULL *Larus fuscus* M Duck ±: 60 cm. Sea coast. Pakistan and India.

453. **(6)** GREAT BLACKHEADED GULL *Larus ichthyaetus* M Duck +: 66-72 cm. Sea coast and large rivers and lakes. Subcontinent.

454. **(13)** BROWNHEADED GULL *Larus brunnicephalus* RM Crow +: 46 cm. Sea coast, lagoons, backwaters, estuaries and large rivers. *Breeding:* Ladakh. *Winter:* Subcontinent.

455. **(11)** BLACKHEADED GULL *Larus ridibundus* M Crow ±: 43 cm. Sea coast, estuaries, etc. Subcontinent.

456. **(12)** SLENDERBILLED GULL *Larus genei* RM Crow ±:43 cm. Jheels and sea coast. *Breeding:* Baluchistan. *Winter:* Sind, Gujarat, Bombay, and Nepal terai.

457. **(10)** LITTLE GULL *Larus minutus* V Pigeon – : 25-30 cm. Single record, Ladakh. Unconfirmed sighting, Great Rann of Kutch.

484. **(3)** INDIAN SKIMMER *Rynchops albicollis* R Crow ±: 40 cm. Large rivers. The Indus, Ganges and Brahmaputra river systems, and the large rivers of E and peninsular India.

PLATE 46

458. **(3)** WHISKERED TERN *Chlidonias hybrida* RM Pigeon – : 25 cm. Lakes, marshes, coastal lagoons and mudflats. *Breeding:* Kashmir, N India in the Gangetic plain, Assam and Bangladesh. *Winter:* Subcontinent.

459. **(2)** WHITEWINGED BLACK TERN *Chlidonias leucopterus* Pigeon – : 23 cm. Marshes and rivers. Assam, Bangladesh and Sri Lanka. Irregularly in the rest of the Indian peninsula.

459a. **(1)** BLACK TERN *Chlidonias niger* V Pigeon – : 23 cm. Single sight record, Delhi.

460. **(15)** GULLBILLED TERN *Gelochelidon nilotica* RM Crow – : 38 cm. Jheels, rivers and coastal mudflats. *Breeding:* Pakistan, W Bengal and Bangladesh. *Winter:* Subcontinent.

462. **(10)** CASPIAN TERN *Hydroprogne caspia* RM Crow + : 51 cm. Sea coast and large lakes. *Breeding:* Baluchistan and Sri Lanka. *Winter:* Subcontinent.

463. **(9)** INDIAN RIVER TERN *Sterna aurantia* R Crow ± : 38-46 cm. Large rivers and reservoirs. Subcontinent; absent in Sri Lanka.

464. **(8)** COMMON TERN *Sterna hirundo* RM Crow – : 36 cm. Large rivers and estuaries. *Breeding:* Ladakh. *Winter:* Subcontinent.

466. **(6)** ROSEATE or ROSY TERN *Sterna dougallii* R Crow – : 38 cm. Sea coast. Islets off the coast of S India and Sri Lanka; the Maldive (?) and Andaman is.

467. **(7)** WHITECHEEKED TERN *Sterna repressa* R Crow – : 35 cm. Pelagic. *Breeding:* Vengurla Rocks off the Maharashtra coast. Coasts of Pakistan, W India and Lakshadweep Is.

468. **(12)** BLACKNAPED TERN *Sterna sumatrana* R Crow – : 33 cm. Pelagic. Andaman, Nicobar and Maldive is.

470. **(13)** BLACKBELLIED TERN *Sterna acuticauda* R Crow – : 33 cm. Rivers. Subcontinent east of the Indus; absent in Sri Lanka.

471. **(19)** BROWNWINGED TERN *Sterna anaethetus* R Crow – : 37 cm. Pelagic. *Breeding:* Islands off the Maharashtra coast, Makran coast(?), Lakshadweep and Maldive is. Post-breeding dispersal chiefly over the Arabian Sea to the coasts of Pakistan, W India and Sri Lanka.

474. **(16)** SOOTY TERN *Sterna fuscata* R Crow ± : 43 cm. Pelagic. Lakshadweep and probably also Maldive and Andaman is. Has strayed to Tamil Nadu, Bihar and Assam.

475. **(4)** LITTLE TERN *Sterna albifrons* R Myna ± : 23 cm. Rivers, marshes and estuaries. Pakistan, Gujarat, coast of Maharashtra, large rivers of N India, Nepal, Bangladesh and Sri Lanka.

478. **(11)** LARGE CRESTED TERN *Sterna bergii* R Kite – : 53 cm. Pelagic. *Breeding:* Islets off the coasts of Pakistan, peninsular India and Sri Lanka; Lakshadweep and probably Maldive is. Post-breeding dispersal: entire seaboard.

479. **(14)** INDIAN LESSER CRESTED TERN *Sterna bengalensis* R Crow ± : 43 cm. Offshore waters. Subcontinent. Presumably breeding on the Makran coast, Rameswaram, Lakshadweep and Maldive is.

480. **(18)** SANDWICH TERN *Sterna sandvicensis* M Crow + : 44 cm. Sea coast. Pakistan and Gujarat.

481. **(17)** NODDY TERN *Anous stolidus* R Crow – : 41 cm. Pelagic. *Breeding:* Lakshadweep, Andaman, Nicobar, and possibly also the Maldive is.

483. **(5)** INDIAN OCEAN WHITE TERN, FAIRY TERN *Gygis alba* R Pigeon – : 27-33 cm. Pelagic. Addu Atoll, Maldive Is.

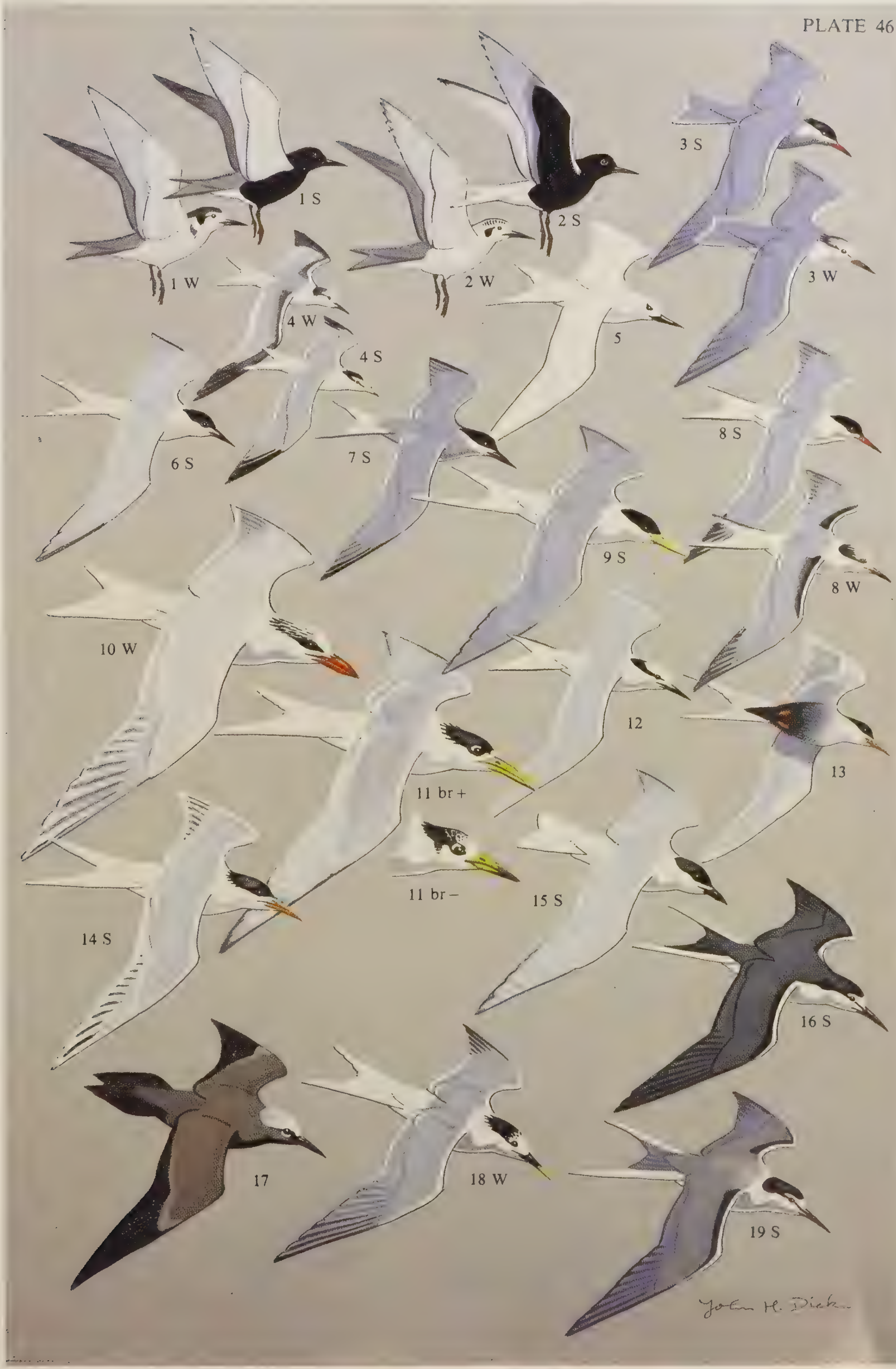
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PLATE 47

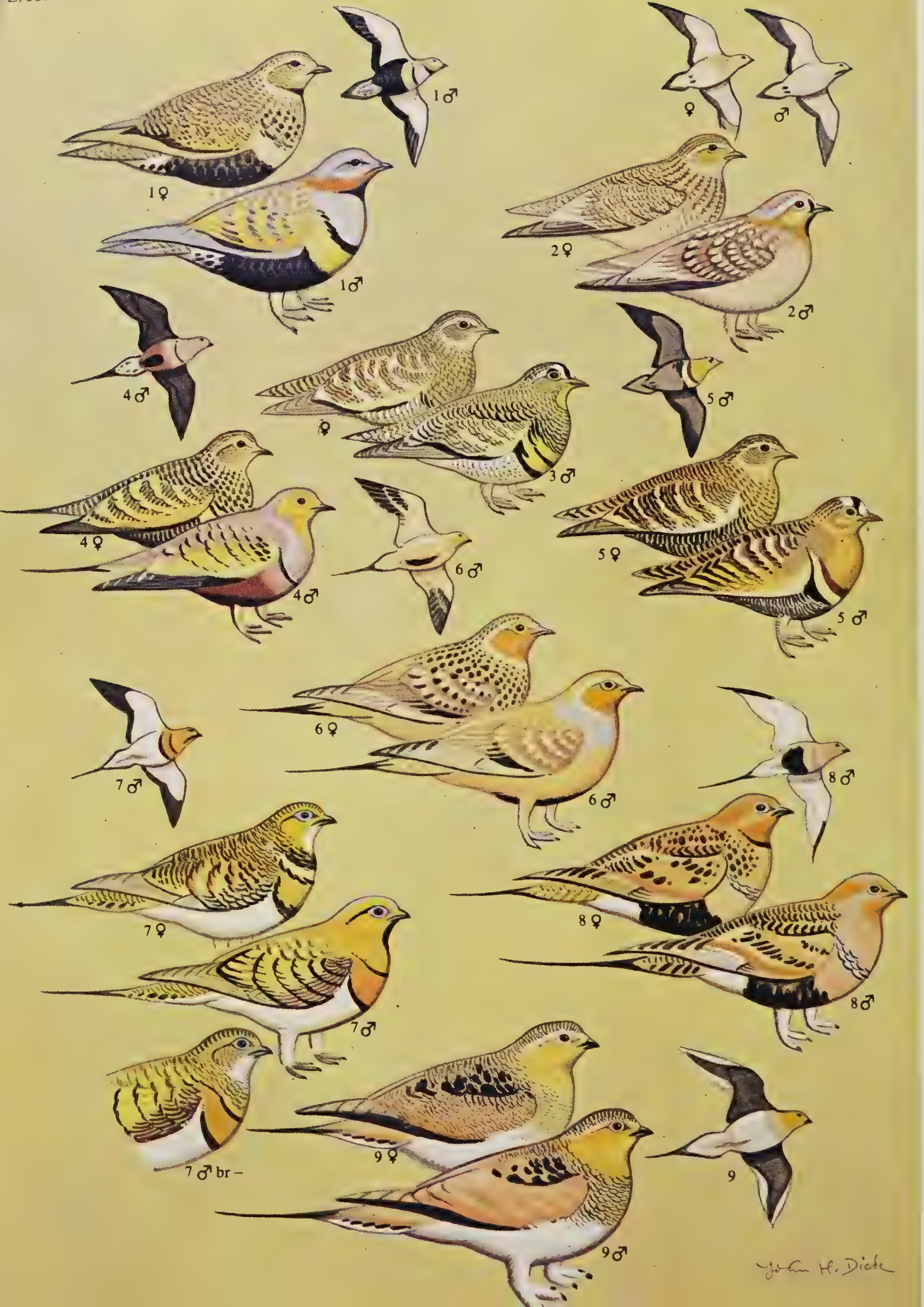
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PLATE 47

485. **(9)** TIBETAN SANDGROUSE *Syrrhaptes tibetanus* R Crow+: 48 cm. Stony, semi-desert steppes. Ladakh and Himachal Pradesh in Tibetan facies; c. 4200-5400 m.

485a. **(8)** PALLAS'S SANDGROUSE *Syrrhaptes paradoxus* V Crow+: 48 cm. Single record, Rajasthan.

486. **(7)** LARGE PINTAIL SANDGROUSE *Pterocles alchata* (R?)M Pigeon+: 38 cm. Sandy or stony semi-desert. Pakistan, Haryana, Delhi, Rajasthan and Gujarat.

487. **(4)** INDIAN SANDGROUSE *Pterocles exustus* R Pigeon ±: 28 cm. Stony semi-desert and dry fallow land. Pakistan, and India east to Bengal, south to Tamil Nadu.

488. **(6)** SPOTTED SANDGROUSE *Pterocles senegallus* R Pigeon+: 36 cm. Open semi-desert. Pakistan and NW India. *Breeding:* Baluchistan.

489. **(1)** IMPERIAL SANDGROUSE *Pterocles orientalis* R Pigeon+: 39 cm. Sandy semi-desert. Pakistan and NW India; vagrant to Nepal, Uttar Pradesh, Madhya Pradesh and Karnataka. *Breeding:* Baluchistan and Sind.

490. **(2)** CORONETTED SANDGROUSE *Pterocles coronatus* R Pigeon−: 28 cm. Stony semi-desert. Pakistan west of the Indus.

491. **(3)** CLOSEBARRED SANDGROUSE *Pterocles indicus arabicus* R Pigeon−: 27 cm. Stony semi-desert. Pakistan west of the Indus.

492. **(5)** PAINTED SANDGROUSE *Pterocles indicus indicus* R Pigeon−: 28 cm. Bare, stony plateau country. Pakistan east of the Indus, and India east to Bihar and Orissa, south to Karnataka and Tamil Nadu.

PLATE 48

506. **(9)** GREEN IMPERIAL PIGEON *Ducula aenea* R Crow + : 43 cm. Evergreen and moist-deciduous forest. Subcontinent.

509. **(10)** PIED IMPERIAL PIGEON *Ducula bicolor* R Pigeon + : 41 cm. Forest, especially mangroves. Andaman and Nicobar Is.

510. **(15)** IMPERIAL PIGEON *Ducula badia* R Crow + : 51 cm. Tall evergreen forest. E Himalayas; NE hill states, up to c. 2300 m; W Ghats complex.

513. **(5)** SNOW PIGEON *Columba leuconota* R Pigeon ± : 34 cm. Cliffs and steep gorges. Himalayas, c. 3000-4500 m; lower in winter.

515. **(4)** HILL PIGEON *Columba rupestris* R Pigeon ± : 33 cm. Cliffs and gorges in high plateau country. Himalayas, c. 3000-5500 m; lower in winter.

516. **(1)** BLUE ROCK PIGEON *Columba livia* R 33 cm. Cliffs and gorges, and around habitations and cultivation. Subcontinent.

518. **(3)** EASTERN STOCK PIGEON *Columba eversmanni* M Pigeon – : 30 cm. Groves of trees in cultivated country. Pakistan, and NW India east to Bihar, south to Rajasthan and Gwalior.

519. **(6)** WOOD PIGEON *Columba palumbus* R Pigeon + : 43 cm. Forest of oak and conifers. Baluchistan, Salt Range and W Himalayas. Seasonally between c. 800 and 3500 m.

520. **(14)** SPECKLED WOOD PIGEON *Columba hodgsonii* R Pigeon + : 38 cm. Tall evergreen and semi-evergreen forest. Himalayas c. 1800-4000 m; NE hill states.

521. **(7)** NILGIRI WOOD PIGEON *Columba elphinstonii* R Pigeon + : 42 cm. Moist-evergreen forest and sholas. W Ghats and associated hills from Bombay south through Kerala.

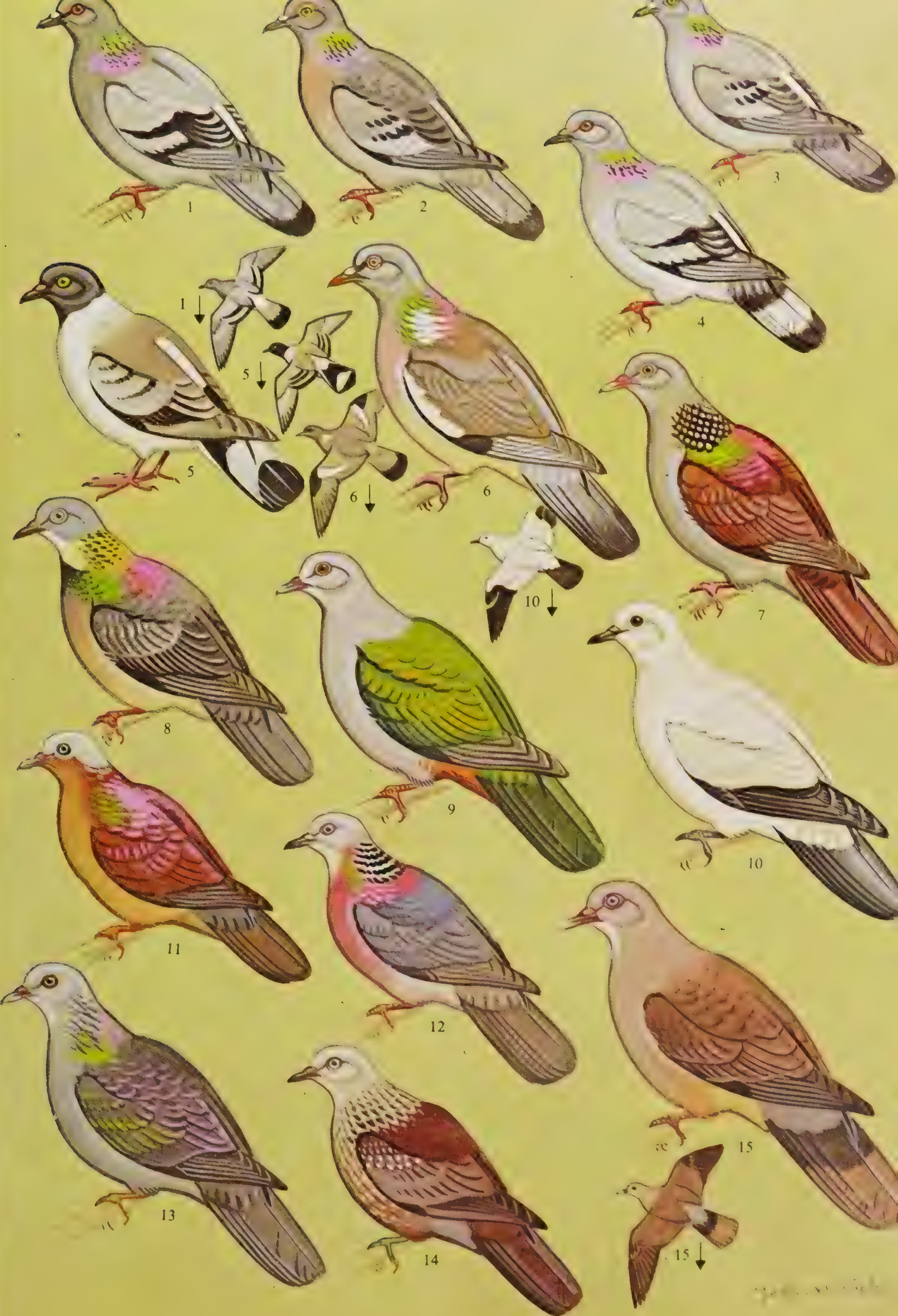
522. **(12)** CEYLON WOOD PIGEON *Columba torringtoni* R Pigeon + :36 cm. Evergreen and moist-deciduous forest. Sri Lanka.

523. **(8)** ASHY WOOD PIGEON *Columba pulchricollis* R Pigeon + : 36 cm. Mixed deciduous and evergreen forest. E Himalayas c. 1200-3200 m; NE hill states.

524. **(11)** PURPLE WOOD PIGEON *Columba punicea* R Pigeon + : 36 cm. Well-wooded ravines with dense evergreen undergrowth or where interspersed with scrub jungle and cultivation. Bihar, E Madhya Pradesh and Orissa east to Assam, Nagaland, Manipur and Bangladesh (Chittagong region).

525. **(13)** ANDAMAN WOOD PIGEON *Columba palumboides* R Pigeon + : 41 cm. Evergreen forest. Andaman and Nicobar Is.

EL. **(2)** STOCK PIGEON *Columba oenas* Europe, Mediterranean, W Asia.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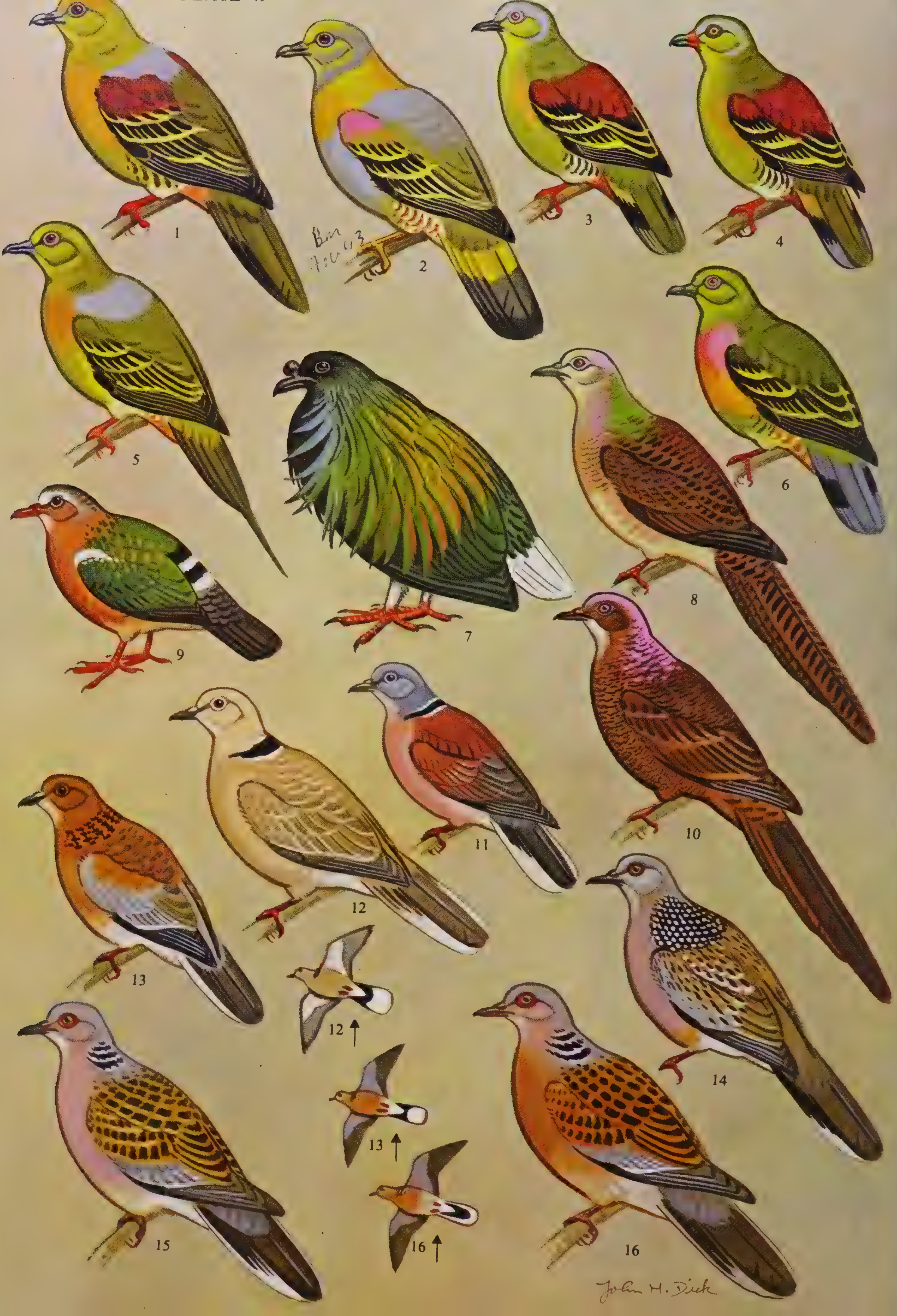
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John H. Dick

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PLATE 49

493. **(5)** PINTAILED GREEN PIGEON *Treron apicauda* R Pigeon + : ♂ 42 cm including tail of c. 21 cm; ♀ tail shorter c. 18 cm. Tall forest. Lower Himalayas from Kumaon to Bhutan and Arunachal Pradesh; up to c. 1800 m.

494. **(1)** WEDGETAILED GREEN PIGEON *Treron sphenura* R Pigeon ± : 33 cm. Broad-leafed forest. Lower Himalayas from Kashmir to Bhutan and Arunachal Pradesh, and hills south of the Brahmaputra; up to c. 2500 m.

495. **(4)** THICKBILLED GREEN PIGEON *Treron curvirostra* R Pigeon – : 27 cm. Well-wooded country up to c. 1500 m. Lower Himalayas from W Nepal (up to 2750 m) east to Bhutan and Arunachal Pradesh; NE hill states to Bangladesh and Manipur.

496. **(3)** POMPADOUR or GREYFRONTED GREEN PIGEON *Treron pompadora* R Pigeon – : 28 cm. Tropical evergreen and moist-deciduous forest. Nepal, W Bengal, NE India and Bangladesh; W Ghats complex south to Kerala; Sri Lanka; Andaman and Nicobar Is.

501. **(6)** ORANGEBREASTED GREEN PIGEON *Treron bicincta* R Pigeon – : 29 cm. Evergreen and moist-deciduous forest. Lower Himalayas (up to 1500 m) from the Uttar Pradesh terai and Nepal east to Bhutan and Arunachal Pradesh, Manipur, W Bengal and Bangladesh; E Ghats, and W Ghats from Belgaum southwards; Sri Lanka.

503. **(2)** YELLOWLEGGED GREEN PIGEON *Treron phoenicoptera* R Pigeon ± : 33 cm. Dry- and moist-deciduous biotope. Pakistan (Punjab) and N India from Himalayan foothills south through the peninsula; Bangladesh; Sri Lanka.

526. **(8)** BARTAILED CUCKOO-DOVE *Macropygia unchall* R Pigeon + : 41 cm. Dense evergreen forest and secondary jungle. Himalayas from Kashmir to Arunachal Pradesh, and south through NE hill states to Manipur.

527. **(10)** ANDAMAN CUCKOO-DOVE *Macropygia rufipennis* R Pigeon + : 41 cm. Dense evergreen forest and secondary jungle. Andaman and Nicobar Is.

529. **(15)** TURTLE DOVE *Streptopelia turtur* V Pigeon – : 28 cm. Open cultivated country. Pakistan.

530. **(16)** RUFOUS TURTLE DOVE *Streptopelia orientalis* RM Pigeon ± : 33 cm. Moist-deciduous biotope, mixed forest and bamboo jungle. Subcontinent, to c. 4000 m in the Himalayas.

534. **(12)** INDIAN RING DOVE *Streptopelia decaocto* R Pigeon ± : 32 cm. Dry-deciduous plains country with light jungle and cultivation. Subcontinent.

535. **(11)** RED TURTLE DOVE *Streptopelia tranquebarica* R Myna ± : 23 cm. Deciduous scrub jungle and cultivation. Subcontinent; normally under 800 m in the Himalayas.

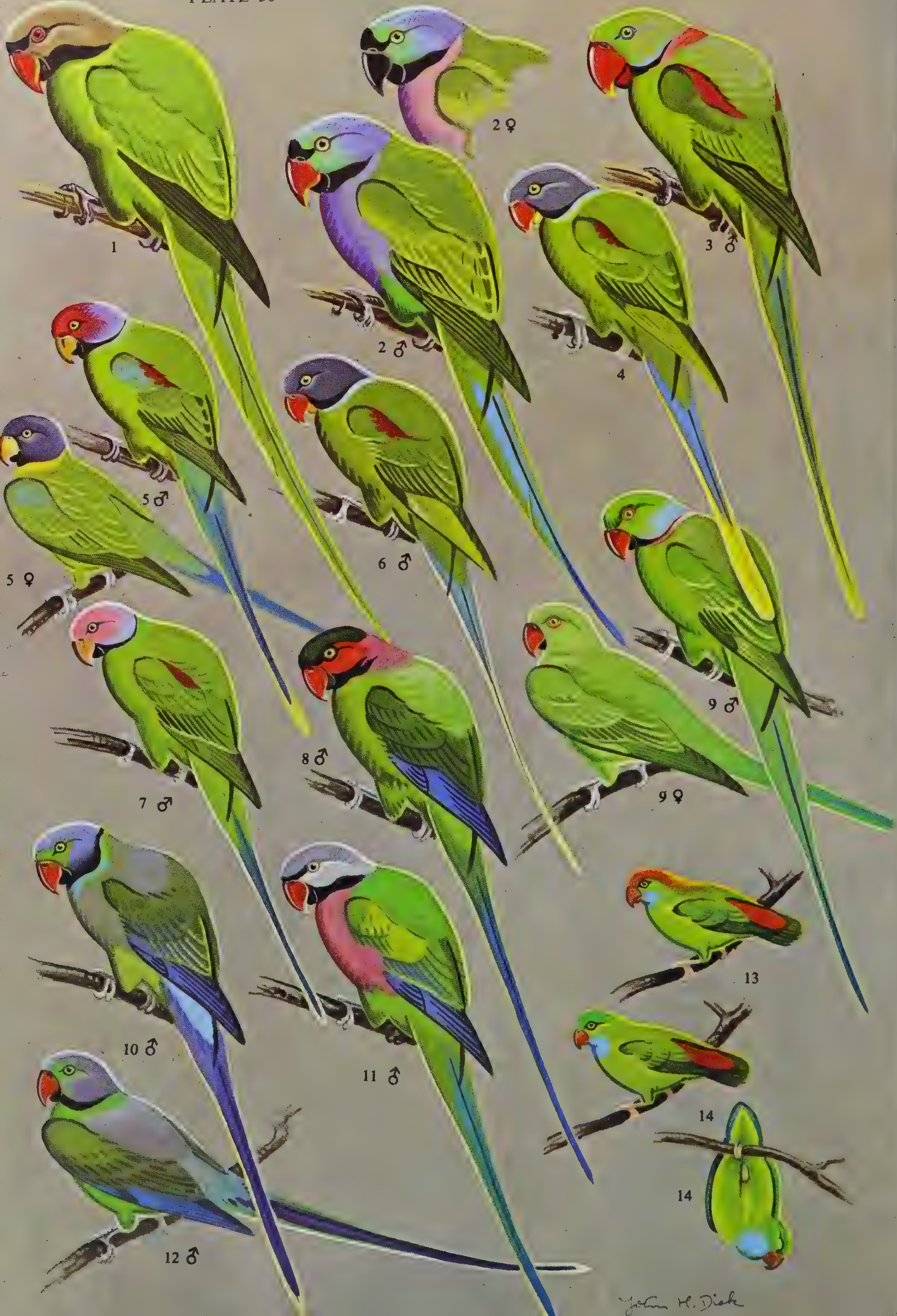
537. **(14)** SPOTTED DOVE *Streptopelia chinensis* R Pigeon – : 30 cm. Dry- and moist-deciduous bitope—better wooded moister facies than Ring or Little Brown. Subcontinent; Sri Lanka.

541. **(13)** LITTLE BROWN or SENEGAL DOVE *Streptopelia senegalensis* R Myna + : 27 cm. Dry-deciduous biotope. Subcontinent east to Nepal, Bangladesh and Tripura; not recorded in Sri Lanka.

542. **(9)** EMERALD, or BRONZEWINGED, DOVE *Chalcophaps indica* R Myna + : 27 cm. Evergreen and moist-deciduous jungle. Subcontinent; Sri Lanka; Andaman and Nicobar Is.

544b. **(7)** NICOBAR PIGEON *Caloenas nicobarica* R Pigeon + : 41 cm. Heavy evergreen forest. Nicobar Is., South Sentinel I. (off Little Andaman) and Coco Is.

PLATE 50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John H. Dick

PLATE 50

546. **(3)** ALEXANDRINE PARAKEET *Psittacula eupatria* R Pigeon + : 53 cm. Dry – and moist-deciduous biotope. Subcontinent.

550. **(9)** ROSERINGED PARAKEET *Psittacula krameri* R Myna + : overall 42 cm. Moist – and dry-deciduous biotope, thin jungle, orchards, cultivation and human environments. Subcontinent.

551. **(11)** REDBREASTED PARAKEET *Psittacula alexandri* R Pigeon + : overall 38 cm. Moist-deciduous biotope, thin secondary jungle. Lower Himalayas from Kumaon east to Bhutan and Arunachal Pradesh up to c. 1500 m, NE hill states; Andaman Is.

553. **(1)** NICOBAR PARAKEET *Psittacula caniceps* R Pigeon ± : overall 61 cm. High evergreen forest. Nicobar Is.

554. **(2)** LORD DERBY'S PARAKEET *Psittacula derbyana* Summer M Myna + : overall 46 cm. Conifer forest and cultivation. N Arunachal Pradesh, c. 2700-3500 m.

555. **(8)** REDCHEEKED PARAKEET *Psittacula longicauda* R Myna ± : overall 46-48 cm. Evergreen forest and cultivation. Andaman and Nicobar Is.

558. **(5)** BLOSSOMHEADED PARAKEET *Psittacula cyanocephala* R Myna – : overall 36 cm. Lowlands and hills to c. 1300 m. Lower Himalayas of Pakistan east to Bhutan, south throughout the Peninsula; Sri Lanka.

559. **(7)** EASTERN BLOSSOMHEADED PARAKEET *Psittacula roseata* R Myna – : overall 36 cm. Light forest and cultivation. Sikkim duars and east through NE hill states to Bangladesh.

562. **(6)** SLATYHEADED PARAKEET *Psittacula himalayana* R Myna + : overall 41 cm. Well-wooded hillsides and valleys. Himalayas, seasonally between c. 600 and 2500 m.

563. **(4)** EASTERN SLATYHEADED PARAKEET *Psittacula finschii* R Myna – : overall 36 cm. Forest and cultivation. SE Bhutan and Arunachal Pradesh south through NE hill states to Bangladesh; up to c. 2100 m.

564. **(10)** BLUEWINGED PARAKEET *Psittacula columboides* R Myna ± : overall 38 cm. Evergreen and moist-deciduous biotope. W Ghats from the Thana district (c. 19°N lat.) south through Kerala and associated hills of Karnataka and Tamil Nadu; c. 500-1000 m.

565. **(12)** LAYARD'S PARAKEET *Psittacula calthropae* Endemic Myna – : overall 31 cm. Sri Lanka in the low country and hill forest up to c. 1800 m.

566. **(14)** INDIAN LORIKEET *Loriculus vernalis* R Sparrow ± : 14 cm. Evergreen and moist-deciduous forest. E Himalayan foothills; NE hill states; the Indian peninsula in E Ghats,and W Ghats from Thane district (c. 19°N lat.) south through Karnataka, Kerala and Tamil Nadu; Andaman and Nicobar Is.

568. **(13)** CEYLON LORIKEET *Loriculus beryllinus* Endemic Sparrow ± : 14 cm. Evergreen and moist-deciduous biotope. Sri Lanka.

PLATE 51

572. **(1)** LARGE HAWK-CUCKOO *Cuculus sparverioides* RM Crow –: 38 cm. Dense forest. Himalayas, c. 900-3200 m; NE hill states. Karnataka, Kerala and Tamil Nadu (winter).

573. **(3)** COMMON HAWK-CUCKOO, BRAINFEVER BIRD *Cuculus varius* R Pigeon ±: 34 cm. Deciduous and semi-evergreen forest, groves and gardens. Subcontinent.

575. **(2)** HODGSON'S HAWK-CUCKOO *Cuculus fugax* R Pigeon –: 29 cm. Deciduous and evergreen forest. Lower E Himalayas; NE hill states; Bangladesh; c. 600-1800 m.

576. **(10)** INDIAN CUCKOO *Cuculus micropterus* RM Pigeon ±: 33 cm. Deciduous and evergreen biotope. Subcontinent.

578. **(11)** THE CUCKOO *Cuculus canorus* RM Pigeon ±: 33 cm. *Summer:* Himalayas; NE hill states; Bangladesh. Seasonally most hilly regions of the Subcontinent.

581. **(9)** SMALL CUCKOO *Cuculus poliocephalus* RM Myna +: 26 cm. *Summer:* Himalayas; NE hill states; Bangladesh. Seasonally through the Peninsula and Sri Lanka.

582. **(6)** INDIAN BANDED BAY CUCKOO *Cacomantis sonneratii* R Myna ±: 24 cm. Deciduous and evergreen wooded country. Subcontinent; up to c. 2400 m in Himalayas; Sri Lanka.

584. **(8)** INDIAN PLAINTIVE CUCKOO *Cacomantis passerinus* R Myna ±: 23 cm. Open forest, well-wooded country and cultivation. Subcontinent; Sri Lanka. Absent in Pakistan and drier parts of NW India.

585. **(5)** RUFOUSBELLIED PLAINTIVE CUCKOO *Cacomantis merulinus* R Myna ±: 23 cm. Well-wooded country. E Himalayas (up to c. 2000 m); NE hill states; Bangladesh; Assam; W Bengal and Bihar (winter).

586. **(4)** EMERALD CUCKOO *Chalcites maculatus* R or M? Sparrow +: 18 cm. Evergreen forest. Apparently summer visitor to Himalayas. From Garhwal to Bhutan and Arunachal Pradesh; NE hill states. *Winter:* Andaman and Nicobar Is.

587. **(7)** VIOLET CUCKOO *Chalcites xanthorhynchus* R Sparrow +: 17 cm. Secondary evergreen forest. NE hill states; Bangladesh; Andaman and Nicobar Is. Up to c. 1500 m.

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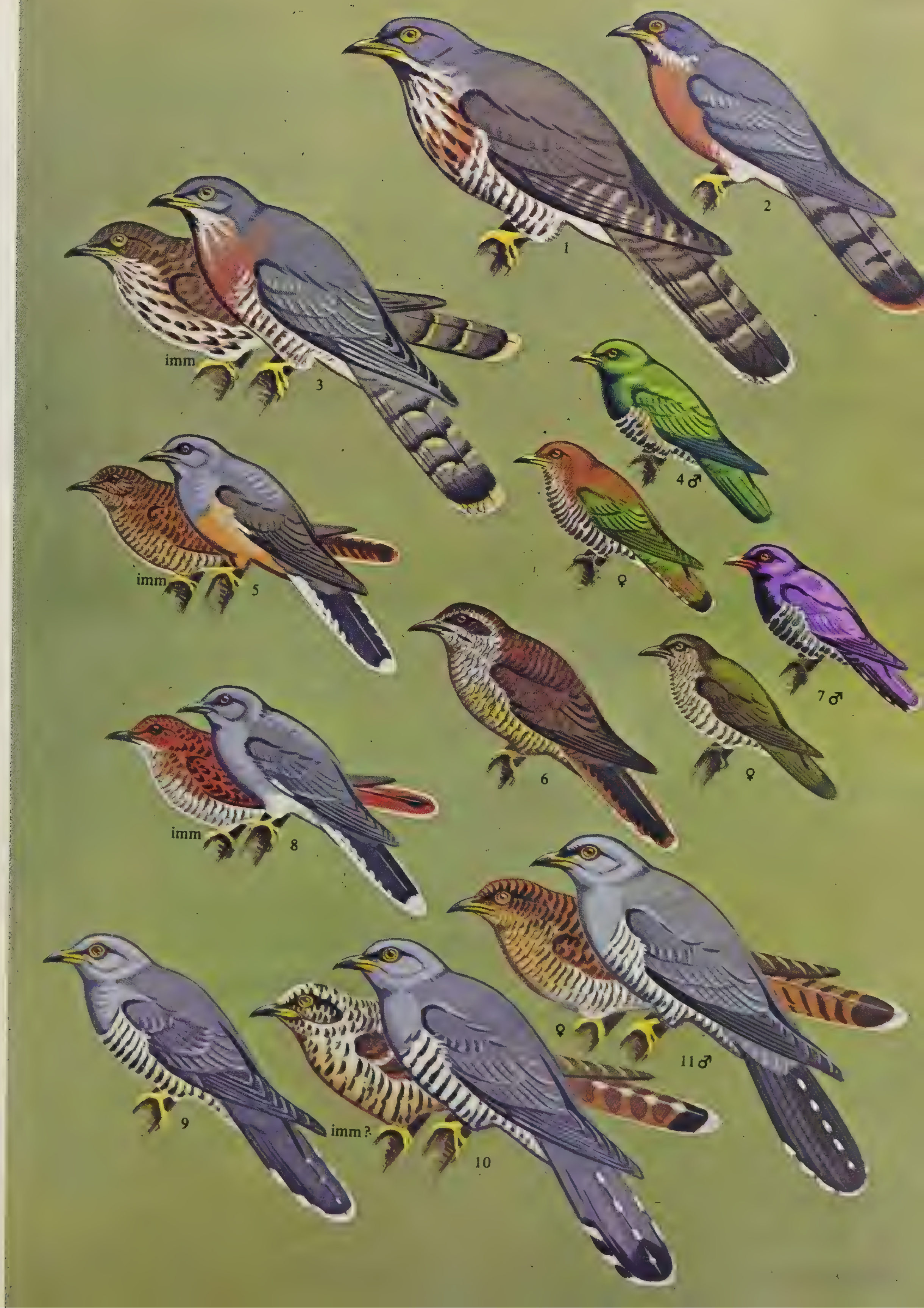
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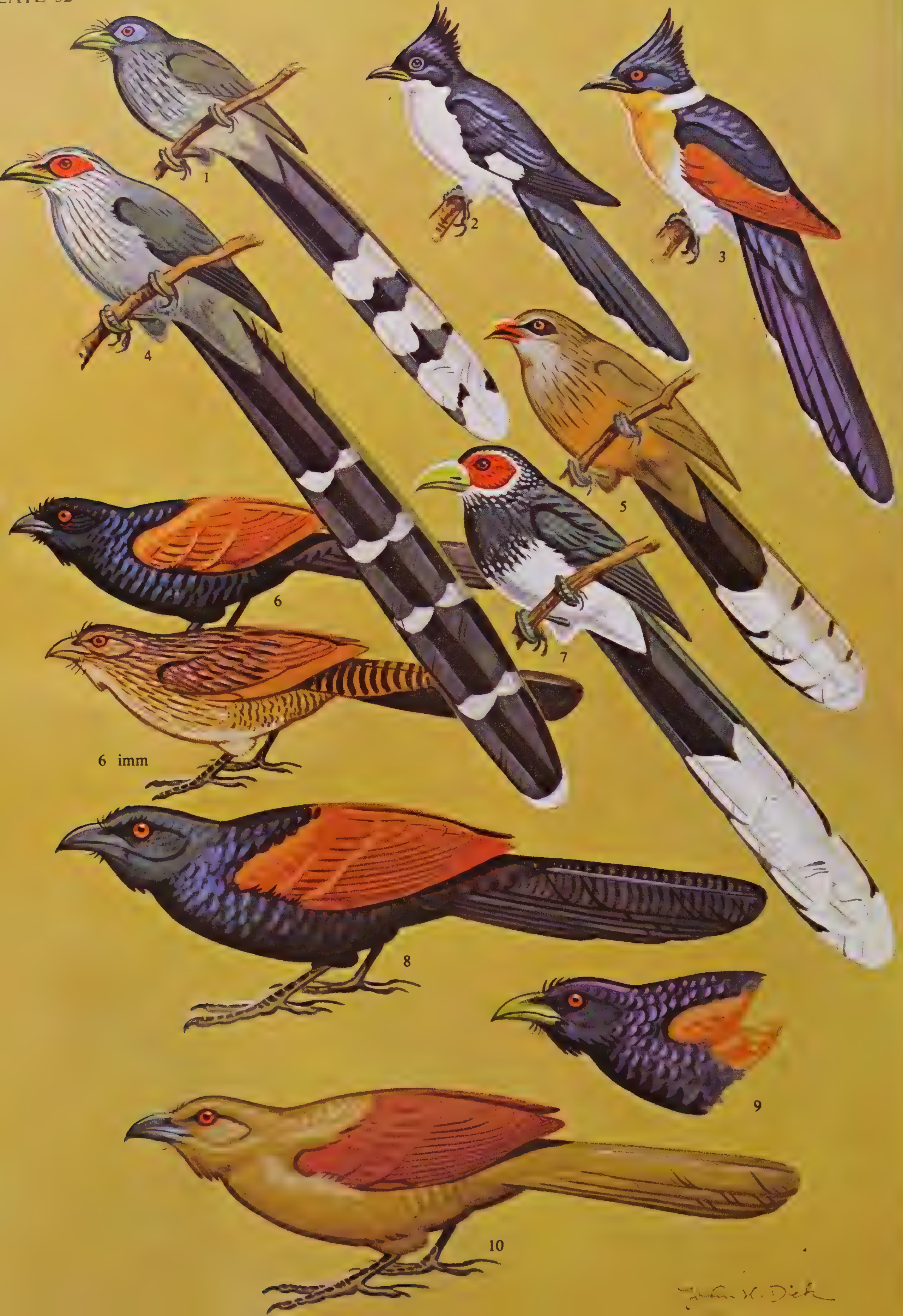
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PLATE 52

569. **(3)** REDWINGED CRESTED CUCKOO *Clamator coromandus* R Crow +: 47 cm. Evergreen and moist-deciduous biotope: foothils forest and scrub jungle. Himalayas from Garhwal east to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh. *Winter:* S India (rare); Sri Lanka.

571. **(2)** PIED CRESTED CUCKOO *Clamator jacobinus* RM Myna ±: 33 cm. Dry – and moist-deciduous lightly wooded country. Seasonally entire Subcontinent; Sri Lanka.

593. **(4)** LARGE GREENBILLED MALKOHA *Rhopodytes tristis* R Pigeon ± with tail c. 38 cm; overall length c. 51 cm. Dense shrubbery and thickets in evergreen and moist-deciduous biotopes. Lower Himalayas from Garhwal to Arunachal Pradesh; NE hill states; Bangladesh; Bihar, E Madhya Pradesh and N Orissa; up to c. 1800 m.

595. **(1)** SMALL GREENBILLED MALKOHA *Rhopodytes viridirostris* R Crow –: 39 cm. Deciduous and semi-evergreen scrub and secondary jungle. Peninsular India from Gujarat, Maharashtra and Orissa south to Kanyakumari; Rameswaram I.; Sri Lanka.

598. **(5)** SIRKEER CUCKOO *Taccocua leschenaultii* R Crow ±: 42-44 cm. Dry-deciduous secondary forest and scrub-and-bush jungle, etc. Subcontinent; Sri Lanka.

599. **(7)** REDFACED MALKOHA *Phaenicophaeus pyrrhocephalus* R Crow +: 46 cm. Tall evergreen forest. S Kerala, S Tamil Nadu, and Sri Lanka. Rare and endangered.

600. **(8)** CROW-PHEASANT or COUCAL *Centropus sinensis* R Crow +: 48 cm. Deciduous scrub jungle and gardens. Subcontinent.

603. **(10)** ANDAMAN CROW-PHEASANT *Centropus (sinensis) andamanensis* Endemic Crow +: 48 cm. Evergreen forest and mangroves. Andaman, Coco, and possibly Nicobar is.

604. **(9)** CEYLON COUCAL *Centropus chlororhynchus* Endemic Crow ±: 43 cm. Humid forest. Sri Lanka.

605. **(6)** LESSER COUCAL *Centropus toulou* R Crow –: 33 cm. Scrub jungle and tall grassland. Himalayan submontane terai: Uttar Pradesh east to Nepal, Bhutan, E India; Bihar and Orissa; also SW India from N Kanara through W Karnataka and Kerala.

PLATE 53

627. **(1)** EAGLE-OWL, GREAT HORNED OWL *Bubo bubo* R Kite – : 56 cm. Rocky hills with outscoured steep-sided ravines, and well-wooded country. Subcontinent; no record from Bhutan and Bangladesh eastwards.

628. **(2)** FOREST EAGLE-OWL *Bubo nipalensis* R Kite ± : 63 cm. Dense evergreen and moist-deciduous forest up to c. 2100 m. Himalayan submontane tracts from Kumaon to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; also the hills of W Ghats complex in S India, east to the Shevaroy Hills; Sri Lanka.

630. **(3)** DUSKY HORNED OWL *Bubo coromandus* R Kite ± : 58 cm. Wooded, well-watered country with groves of large leafy trees. Most of the Subcontinent south of Himalayas.

631. **(8)** BROWN FISH OWL *Bubo zeylonensis* R Kite – : 56 cm. Well-wooded and well-watered country. Subcontinent.

633. **(11)** TAWNY FISH OWL *Bubo flavipes* R Kite ± : 61 cm. Forest near streams. Outer Himalayas (up to c. 1500 m) from Kashmir to Bhutan, Arunachal Pradesh(?); NE hill states; Bangladesh.

654. **(10)** HUME'S WOOD OWL *Strix butleri* V Pigeon + : 36 cm. Oases and nearby rocks or ruins. Single record, Ormara, Makran coast.

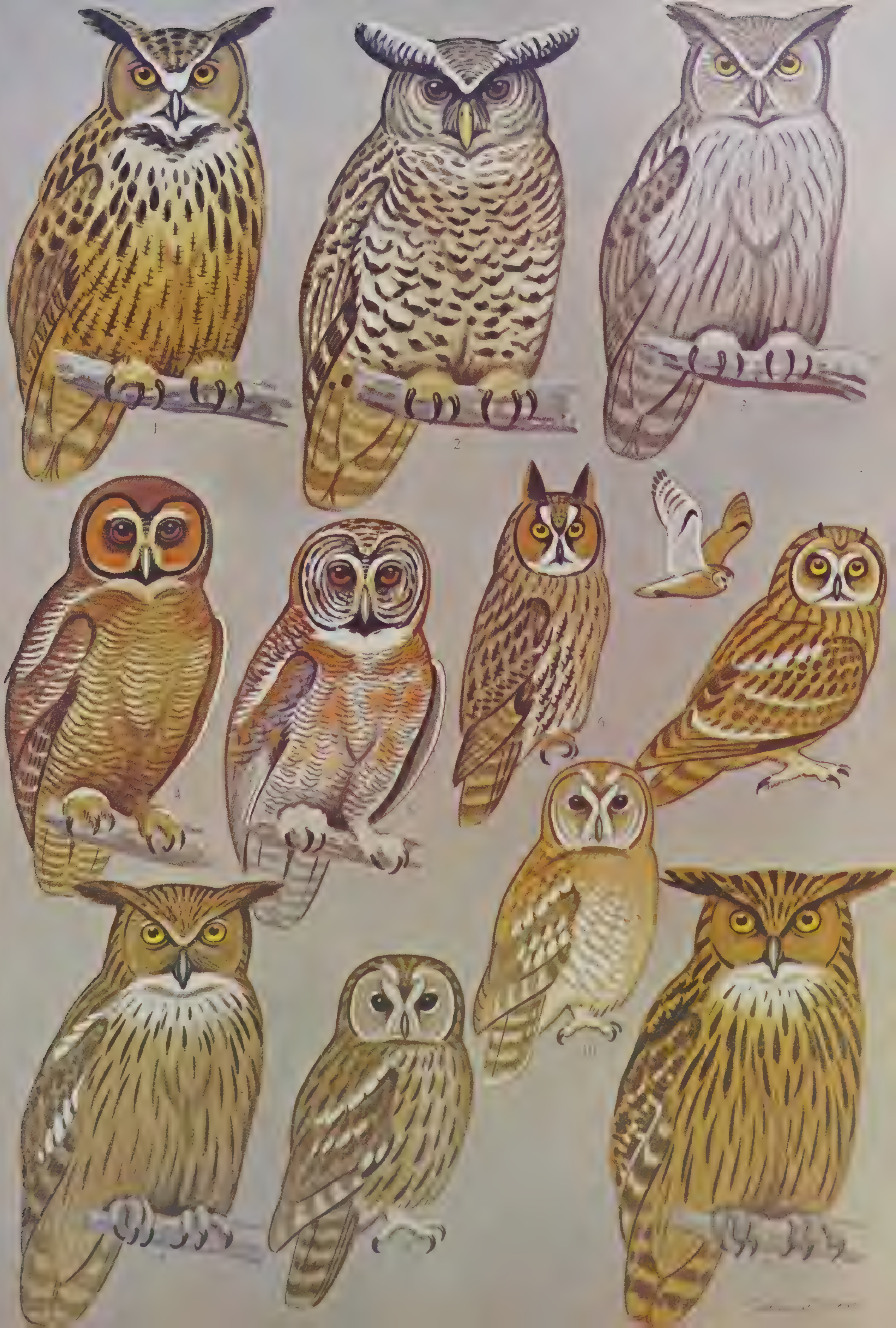
657. **(5)** MOTTLED WOOD OWL *Strix ocellata* R Kite ± : 48 cm. Wooded plains country: groves of densely foliaged ancient trees in village environs, etc. Pakistan and most of peninsular India.

659. **(4)** BROWN WOOD OWL *Strix leptogrammica* R Kite – : 47-53 cm. Dense semi-evergreen and moist-deciduous forest. Himalayas from Pakistan (Punjab) east to Arunachal Pradesh (750-2450 m); NE hill states; rest of the Subcontinent; Sri Lanka.

662. **(9)** HIMALAYAN WOOD OWL *Strix aluco* R Crow + : 45-47 cm. Forest of oak, pine and fir. Baluchistan to Chitral, and east through Himalayas (c. 1200-4000 m), and south through NE hill states.

663. **(6)** LONGEARED OWL *Asio otus* RM Pigeon + : 37 cm. Hill forest (summer); grassy lowland jungle (winter). *Breeding:* Baluchistan and Kashmir, upto c. 1800 m. *Winter:* Pakistan and N India.

664. **(7)** SHORTEARED OWL *Asio flammeus* M Pigeon + : 38 cm. Open undulating grasslands, scrub and marshes; plains and hills up to c. 1400 m. Subcontinent.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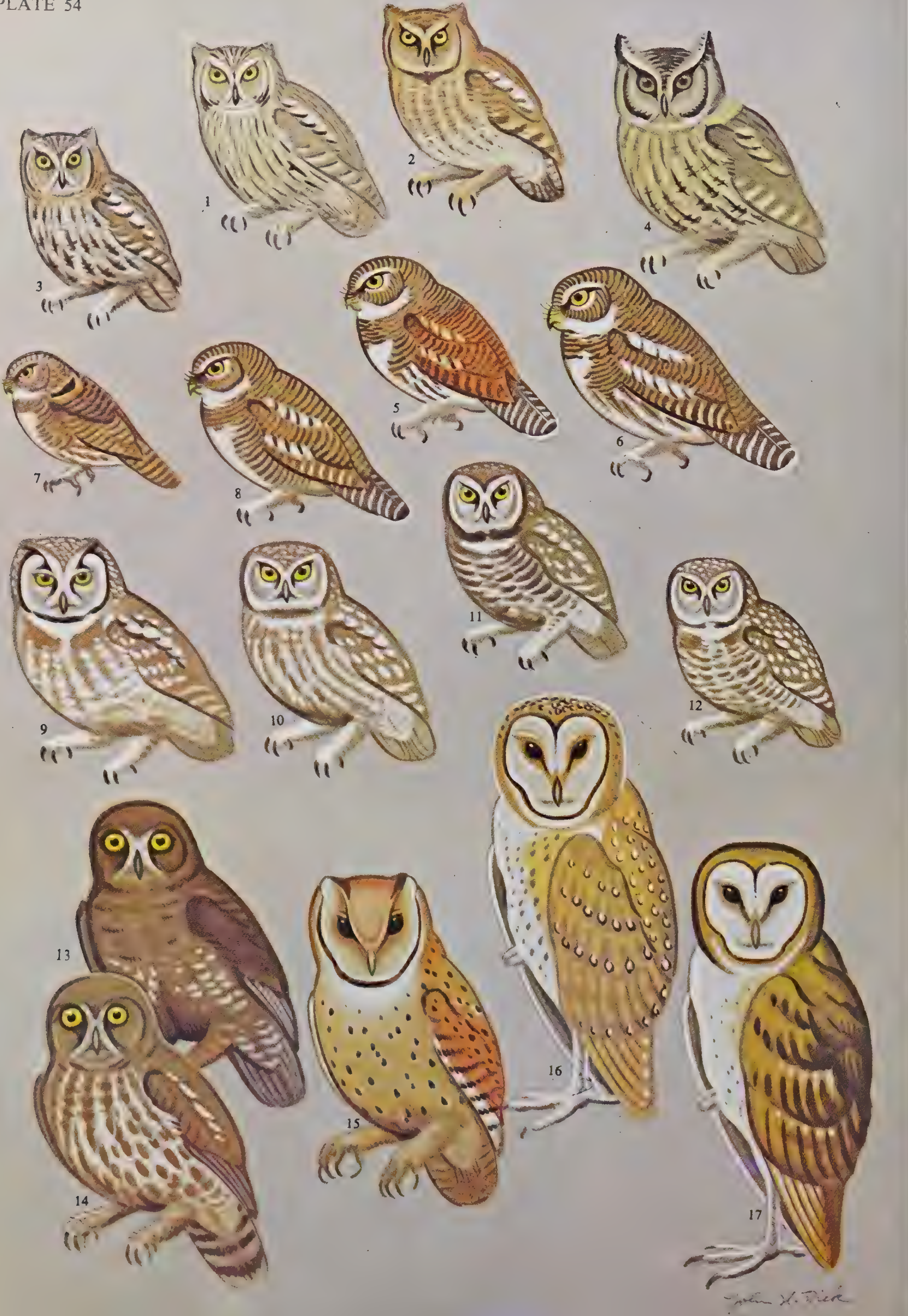
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PLATE 54

606. **(16)** BARN OWL *Tyto alba* R Crow – : 36 cm. Buildings and ruins. Subcontinent; Andaman Is.

608. **(17)** GRASS OWL *Tyto capensis* R Crow – 36 cm. Tall grass jungle and grassy depressions. Himalayan submontane tracts: Uttar Pradesh east to Assam and south through Bangladesh, Bihar, Orissa and Madhya Pradesh; also S Indian hills; up to c. 1800 m..

609. **(15)** BAY OWL *Phodilus badius* R (rare) Pigeon – : 29 cm. Dense evergreen submontane forest. Nepal, Sikkim, Bhutan(?), Assam, Meghalaya, Nagaland and Manipur; Sri Lanka; Kerala (a single example in Nelliampathy Hills).

612. **(2)** SPOTTED SCOPS OWL *Otus spilocephalus* R Myna ± : 18-20 cm. Dense evergreen forest. Himalayan foothills and duars, and south through NE hill states to Bangladesh (Chittagong region); up to c. 2700 m.

614. **(1)** STRIATED, or PALLID, SCOPS OWL *Otus brucei* R Myna ± : 22 cm. Arid semi-desert and stony foothills country. Pakistan (Baluchistan, Gilgit, Punjab, Sind). Also obtained sporadically from Bombay, Poona, Thana, Ahmadnagar and Ratnagiri (vagrants?).

617. **(3)** SCOPS OWL *Otus scops* RM Myna – : 19 cm. Evergreen and deciduous forest. Subcontinent; Sri Lanka.

623. **(4)** COLLARED SCOPS OWL *Otus bakkamoena* R Myna ± : 23-25 cm. Well-wooded country. Subcontinent.

635. **(7)** COLLARED PIGMY OWLET *Glaucidium brodiei* R Quail ± : 17 cm. Deciduous or conifer forest. Himalayas; NE hill states; Bangladesh; between c. 900 and 3200 m.

636. **(8)** JUNGLE OWLET *Glaucidium radiatum* R Myna ± : 20 cm. Moist-deciduous forest and mixed secondary jungle. Subcontinent; Sri Lanka.

638. **(5)** Chestnutbacked ssp. *castanonotum* of 636. Myna – : 19 cm. Moist forest. Sri Lanka.

639. **(6)** BARRED OWLET *Glaucidium cuculoides* R Myna ± : 23 cm. Broadleafed or conifer forest and subtropical evergreen jungle. Outer Himalayas; NE hill states; Bangladesh; up to c. 2700 m.

642. **(14)** BROWN HAWK-OWL *Ninox scutulata* R Pigeon ± : 32 cm. Well-wooded country. Most of the Subcontinent; Sri Lanka.

645. **(13)** Ssp. *obscura* of 642. Andaman and Nicobar Is.

648, 649. **(10)** LITTLE OWL *Athene noctua* R Myna ± : 23 cm. Semi-desert, rocky country; up to c. 4600 m. Pakistan (Baluchistan north to NWFP); Baltistan, Ladakh.

652. **(12)** SPOTTED OWLET *Athene brama* R Myna ± : 21 cm. Ruins, mango topes and village groves of ancient trees, etc. Subcontinent. Absent in Sri Lanka and Andaman and Nicobar Is.

653. **(11)** FOREST SPOTTED OWLET *Athene blewitti* Extinct? Myna ± : 23 cm. Moist-deciduous jungle and groves of wild mango, especially near streams. From Khandesh and Surat Dangs east along the Satpuras to Madhya Pradesh and Orissa. Less than a dozen specimens known, the latest in 1914.

665. **(9)** TENGMALM'S OWL, BOREAL OWL *Aegolius funereus* R Myna + : 25 cm. Subalpine juniper forest. Single record of a breeding female and a feathered juvenile from Lahul (Himachal Pradesh).

PLATE 55

666. **(1)** CEYLON FROGMOUTH *Batrachostomus moniliger* R Myna ±: 23 cm. Dense evergreen forest and secondary jungle. W Ghats from N Kanara south; Sri Lanka.

667. **(2)** HODGSON'S FROGMOUTH *Batrachostomus hodgsoni* R Myna +: 27 cm. Subtropical evergreen foothills forest. E Himalayas; NE hill states; Bangladesh; up to c.1800 m.

669. **(10)** GREAT EARED NIGHTJAR *Eurostopodus macrotis* R Crow −: 41 cm. Evergreen and moist-deciduous forest and bush jungle. Assam; NE hill states; Bangaldesh; up to c. 1000 m; Kerala.

671. **(6)** INDIAN JUNGLE NIGHTJAR *Caprimulgus indicus* R Pigeon −: 29 cm.Dry-and moist-deciduous jungle. Himalayas; NE hill states; Bangladesh; rest of Subcontinent and Sri Lanka.

673. **(4)** EUROPEAN NIGHTJAR *Caprimulgus europaeus* M Myna +: 25 cm. Open forest or bush-covered hillsides. *Summer*: Pakistan from Baluchistan to Gilgit, Rawalpindi and the Salt Range. *Winter*: Makran, Sind and Kutch.

673a.**(5)** EGYPTIAN NIGHTJAR *Caprimulgus aegyptius* M or V Myna +: 25 cm. Semi-desert. Probably a summer visitor to Baluchistan.

674. **(3)** SYKES'S NIGHTJAR *Caprimulgus mahrattensis* RM Myna ±: 23 cm. Stony wastes and open hillsides; also sandy sarkan grass areas. Sind (Pakistan), Kutch, Punjab and Haryana; east to Kanpur, and south in the Peninsula to Belgaum.

675. **(9)** LONGTAILED NIGHTJAR *Caprimulgus macrurus* RM Pigeon −: 28 cm. Moist-deciduous biotope: mixed bamboo and secondary scrub forest. Himalayan foothills (up to c. 2400 m) from Himachal Pradesh through Nepal and Bhutan to Arunachal Pradesh; NE hill states; Bangladesh and practically the entire Subcontinent; Sri Lanka; Andaman Is.

680. **(8)** COMMON INDIAN NIGHTJAR *Caprimulgus asiaticus* R Myna ±: 24 cm. Dry-deciduous scrub-jungle. Subcontinent.

682. **(7)** FRANKLIN'S, or ALLIED, NIGHTJAR *Caprimulgus affinis* R Myna +: 25 cm. Scrubby hillsides, light deciduous forest and grass jungle. Subcontinent from the Punjab Salt Range, Rajasthan and Gujarat eastwards. Absent in Sri Lanka.

PLATE 55

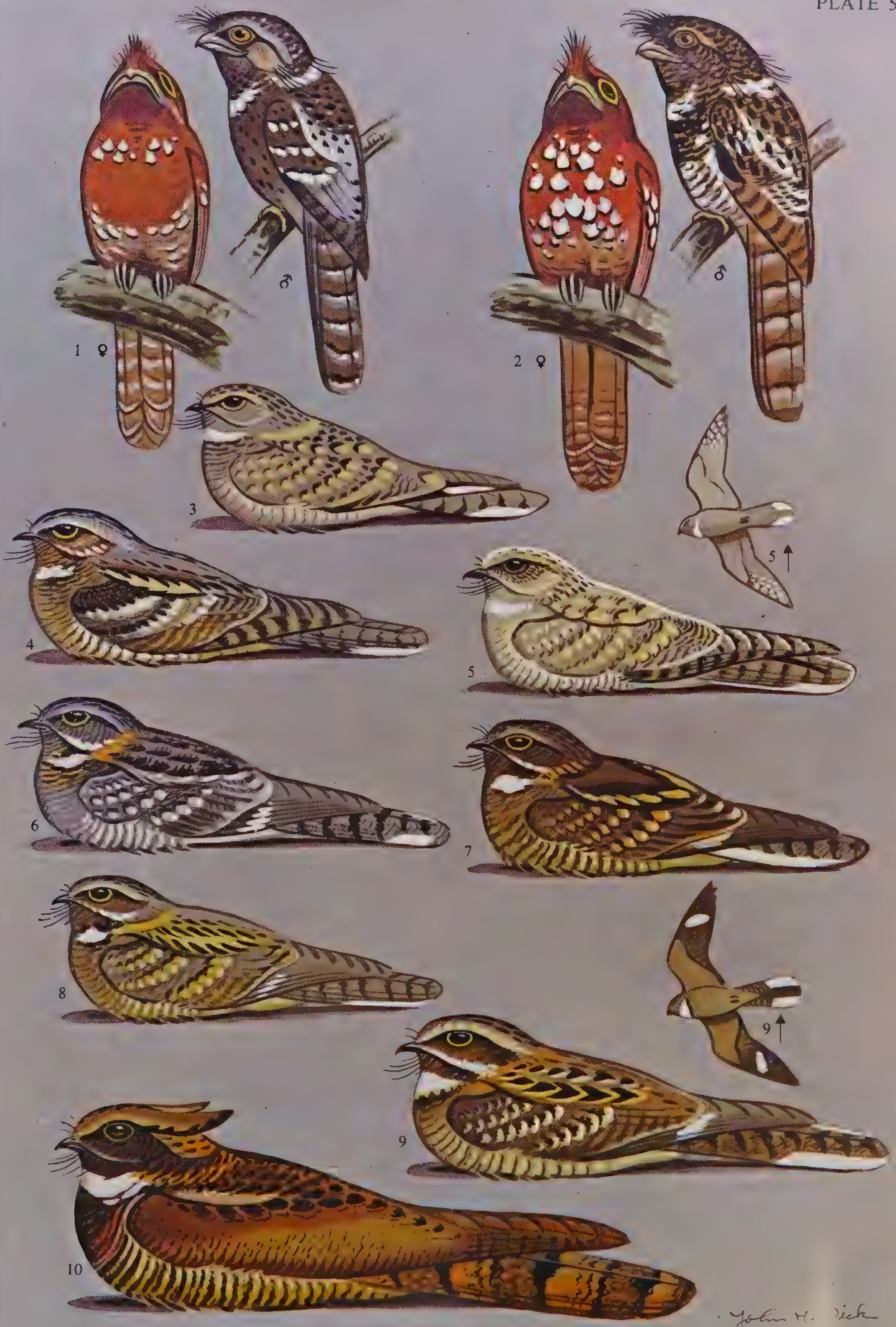
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PLATE 56

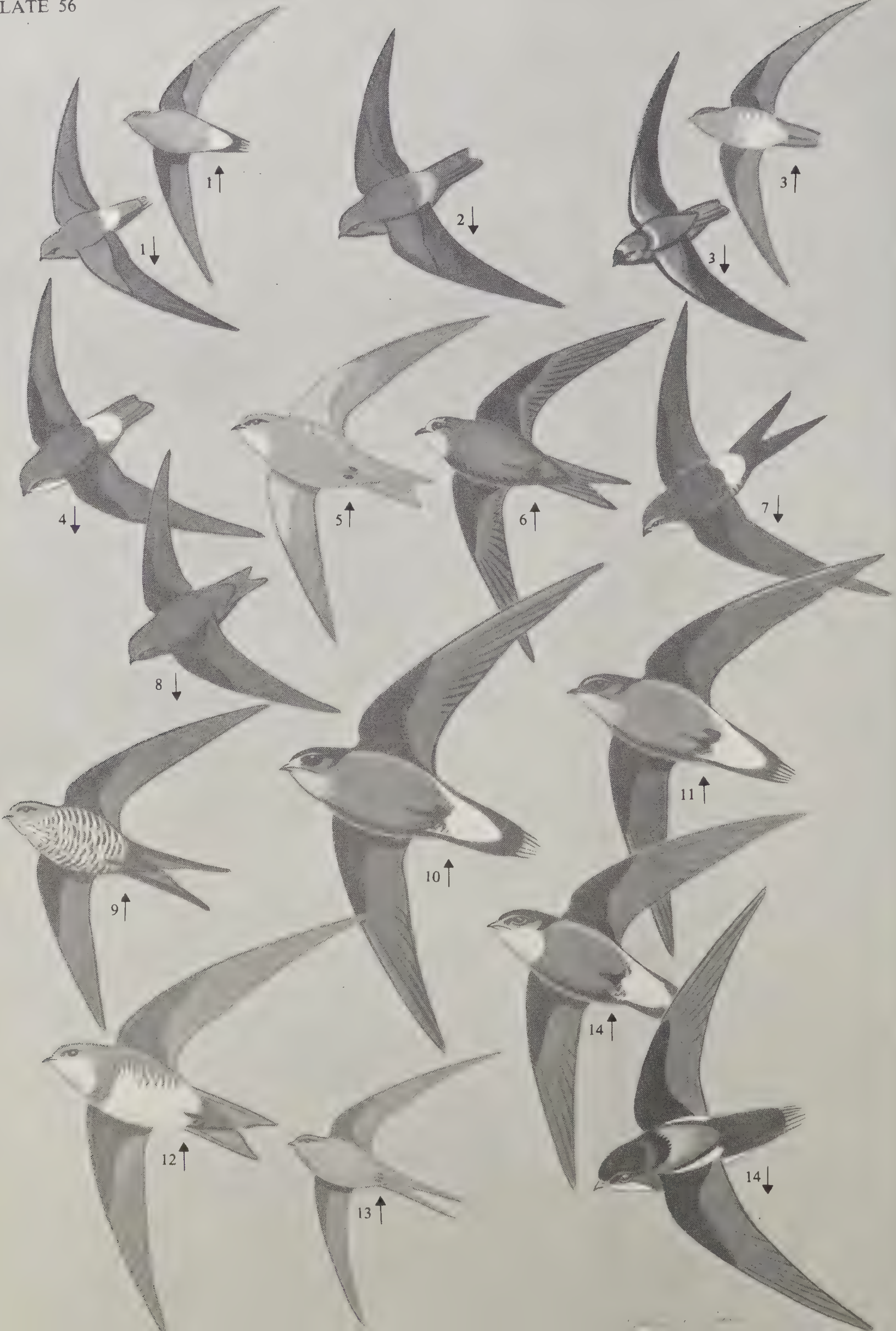
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PLATE 56

683. **(2)** HIMALAYAN SWIFTLET *Collocalia brevirostris* R Sparrow – : 14 cm. Open areas near forest. Himalayas; NE hill states; Bangladesh; up to c. 3600 m.

685. **(8)** INDIAN EDIBLE-NEST SWIFTLET *Collocalia unicolor* R Sparrow – : 12 cm. Caves in rocky offshore islets and cliffs. SW India from S Konkan south through Karnataka, Kerala and Tamil Nadu; Sri Lanka; up to c. 2200 m.

687. **(3)** WHITEBELLIED SWIFTLET *Collocalia esculenta* R Sparrow – : 10 cm. Buildings. Andaman and Nicobar Is.

688. **(14)** WHITETHROATED SPINETAIL SWIFT *Chaetura caudacuta* R Bulbul ± : 20 cm. Vicinity of cliffs. Himalayas; NE hill states to Bangladesh; c. 1200-4000 m.

690. **(11)** COCHINCHINA SPINETAIL SWIFT *Chaetura cochinchinensis* R Bulbul ± : 20 cm. C Nepal terai (c. 600 m); NE hill states; Bangladesh (Chittagong hill tracts).

691. **(10)** LARGE BROWNTHROATED SPINETAIL SWIFT *Chaetura gigantea* R Myna ± : 23 cm. Evergreen and moist-deciduous biotope. NE hill states; southern W Ghats complex from Goa south to Kerala, and east to Bangalore and Salem; also Sri Lanka and Andaman Is.

692. **(1)** WHITERUMPED SPINETAIL *Chaetura sylvatica* R Sparrow – : 11 cm. Evergreen and moist-deciduous biotope. Lower Himalayas in Garhwal, Nepal, Sikkim; Assam; the Indian peninsula from Chota Nagpur and W Bengal south through Orissa, Madhya Pradesh, E Maharashtra and N Andhra Pradesh; also W Ghats complex from N Kanara south through Kerala.

693. **(12)** ALPINE SWIFT *Apus melba* RM Bulbul + : 22 cm. High cliffs. N Baluchistan; Himalayas; W Ghats from Nasik to Kerala; Madhya Pradesh; Sri Lanka.

696. **(6)** THE SWIFT *Apus apus* M Bulbul – : 17 cm. Cliffs. The mountain ranges of Pakistan from N Baluchistan to Chitral and east in the Himalayas through Kashmir and Ladakh (up to 5700 m) to Lahul; c. 1500-3300 m, foraging to over 4000 m. Also recorded from Assam, Gujarat and the Andaman and Maldive is. (on migration).

697. **(8)** PALLID SWIFT *Apus pallidus* M Bulbul – : 17 cm. A desert form. The Makran coast and east to Sind (winter).

698. **(9)** DARKBACKED SWIFT *Apus acuticauda* RM Bulbul – : 17 cm. Vicinity of high cliffs. Meghalaya, and presumably Mizoram.

699. **(7)** LARGE WHITERUMPED SWIFT *Apus pacificus* M Bulbul – : 18 cm. Himalayas; Assam; NE hill states; SW India.

703. **(4)** HOUSE SWIFT *Apus affinis* RM Sparrow ± : 15 cm. Around buildings and cliffs. From NWFP east through Punjab, Kashmir and Uttar Pradesh to Assam and Bangladesh; south throughout the Peninsula.

707. **(13)** PALM SWIFT *Cypsiurus parvus* R Sparrow – : 13 cm. Associated with palms, especially *Borassus*. India from Uttar Pradesh and Gujarat east through Bhutan, NE India and Bangladesh to Burma; from the Nepal duns south through the Peninsula; Sri Lanka.

PLATE 57

712. **(3)** MALABAR TROGON *Harpactes fasciatus* R Myna ± with longer tail: overall 31 cm. Moist-deciduous and evergreen forest. From S Gujarat and Khandesh east to Madhya Pradesh and Orissa, and south through the Peninsula in E and W Ghat complexes; Sri Lanka.

715. **(1)** REDHEADED TROGON *Harpactes erythrocephalus* R Myna + with longer tail: overall 35 cm. Evergreen jungle. Himalayas (foothills up to c. 1800 m) from Kumaon to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh eastwards to Burma.

716. **(2)** WARD'S TROGON *Harpactes wardi* R Pigeon ± with longer tail: overall 40 cm. Tall subtropical forest. E Himalayas, between c. 1500 and 3000 m.

744. **(4)** CHESTNUTHEADED BEE-EATER *Merops leschenaulti* R Bulbul ±: 21 cm. Mixed moist-deciduous forest near streams. Himalayan foothills from Kumaon to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; Sri Lanka; Andaman and Coco is.

746. **(7)** EUROPEAN BEE-EATER *Merops apiaster* RM Myna + : 27 cm. Open country, cultivation and near lakes, etc. *Breeding:* Baluchistan, north to Chitral, east to Kashmir; between c. 900 and 2100 m, foraging up to 3600 m. Passage migrant through the Makran coast and W Himalayas.

747. **(6)** BLUECHEEKED BEE-EATER *Merops superciliosus* RM Bulbul + : overall 31 cm. Near jheels and tanks, and sandy seashores. Pakistan south to Sind, and NW India east to Rajasthan and Delhi.

748. **(9)** BLUETAILED BEE-EATER *Merops philippinus* RM Bulbul + : overall 31 cm. Open country near streams, jheels, and reservoirs. Breeds and/or seasonal in N and C India, and patchily over the Subcontinent; Sri Lanka; Andaman and Nicobar Is.

750. **(10)** GREEN BEE-EATER *Merops orientalis* R Sparrow + : 21 cm. Open country and cultivation. Subcontinent.

753. **(5)** BLUEBEARDED BEE-EATER *Nyctyornis athertoni* R Pigeon + : 36 cm. Secondary evergreen and moist-deciduous forest. Himalayan foothills from Himachal Pradesh east to Arunachal Pradesh; Assam; NE hill states; Bangladesh. Also E and W Ghat complexes, and suitable biotopes in peninsular India.

754. **(8)** EUROPEAN ROLLER *Coracias garrulus* RM Pigeon ± : 31 cm. Wooded parkland and cultivation. *Breeding:* From Baluchistan to Chitral and Kashmir. On outbound passage migration through NW and W India in autumn.

755. **(11)** INDIAN ROLLER *Coracias benghalensis* R Pigeon ± : 31 cm. Open country, cultivation, gardens, light deciduous forest, etc. Subcontinent.

759. **(12)** BROADBILLED ROLLER *Eurystomus orientalis* R Pigeon ± : 31 cm. Cultivation clearings in evergreen and semi-evergreen forest. SW India from W Karnataka south through Kerala and W Tamil Nadu; Himalayan foothills from Haryana east to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; Sri Lanka (rare); Andaman Is.

PLATE 57

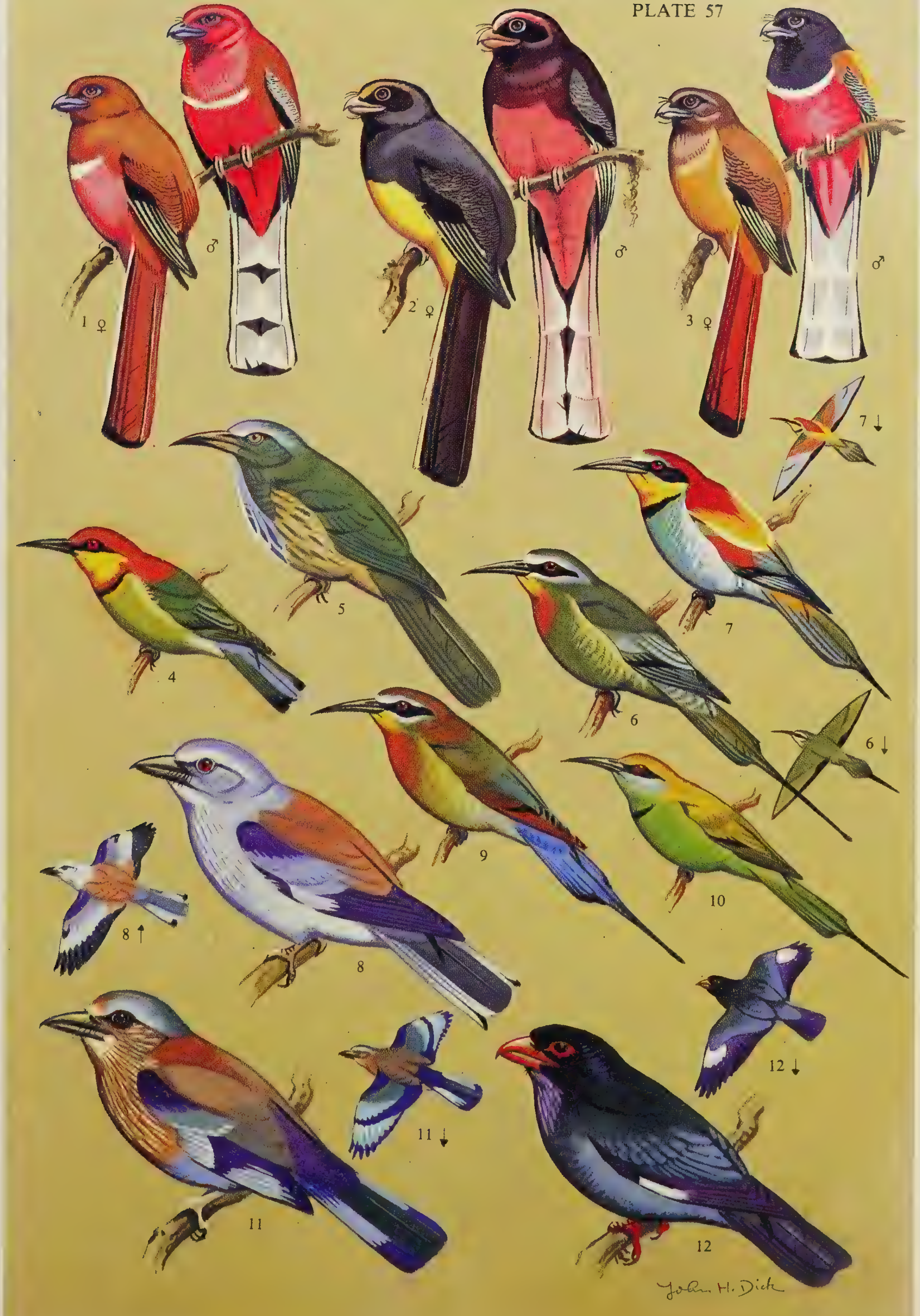
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PLATE 58

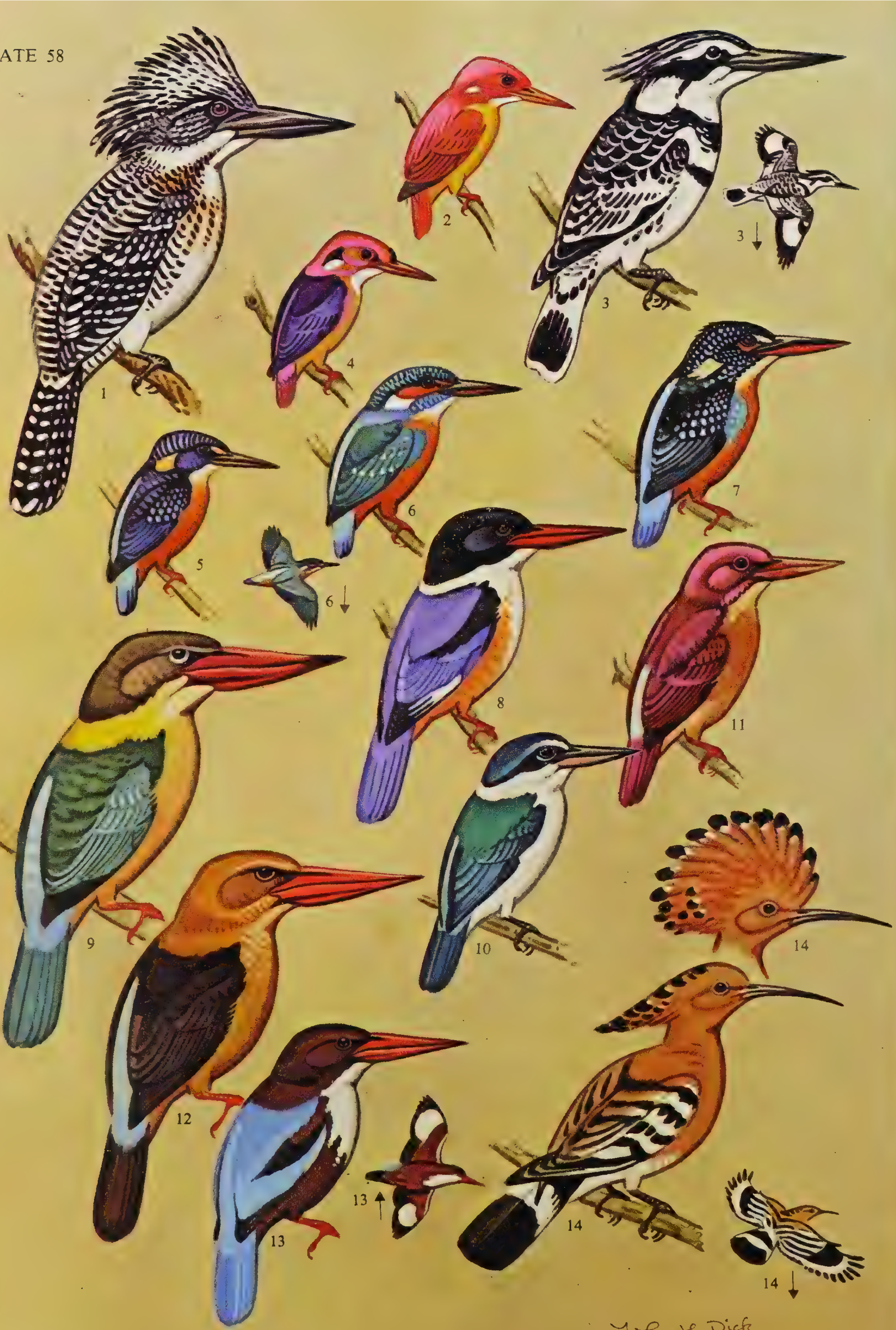
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PLATE 58

717. **(1)** HIMALAYAN PIED KINGFISHER *Ceryle lugubris* R Crow ±: 41 cm. Along streams in well-wooded areas. Lower Himalayas from Kashmir to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; up to c. 2000 m.

719. **(3)** LESSER PIED KINGFISHER *Ceryle rudis* R Myna +: 31 cm. Stagnant water, jheels, reservoirs, ditches and slow-flowing streams. Subcontinent.

721. **(7)** BLYTH'S or GREAT BLUE KINGFISHER *Alcedo hercules* R Myna −: 20 cm. Shady streams in dense evergreen jungle. E Himalayan foothills (up to c. 1200 m); NE hill states to Bangladesh.

722. **(6)** COMMON or SMALL BLUE KINGFISHER *Alcedo atthis* RM Sparrow +: 18 cm. Along streams, canals, ponds, mangrove swamps and seashore. Subcontinent.

725. **(5)** BLUE-EARED KINGFISHER *Alcedo meninting* R Sparrow +: 16 cm. Small streams in evergreen or bamboo forest. E Himalayan foothills; E India (Bihar, Orissa); W Ghats complex south of Belgaum; Andaman Is.

727. **(4)** THREETOED KINGFISHER *Ceyx erithacus* R Sparrow −: 13 cm. Shady streams in moist-deciduous and evergreen biotope. Nepal and E India; W Ghats complex from about Belgaum south; Andaman and Nicobar Is.; Sri Lanka.

727a. **(2)** THREETOED KINGFISHER *Ceyx erithacus rufidorsus?* Sparrow −: 13 cm. Sikkim (once). May be an aberrant polymorphic example of *erithacus*.

729. **(12)** BROWNWINGED KINGFISHER *Pelargopsis amauroptera* R Pigeon +: 36 cm. Tidal rivers, creeks and mangrove swamps. Coastal Bangladesh, W Bengal and Orissa.

730. **(9)** STORKBILLED KINGFISHER *Pelargopsis capensis* R Pigeon +: 38 cm. Well-wooded country near streams and irrigation channels. N and peninsular India east of Dehra Dun and south of Himalayan foothills to Kerala; Sri Lanka; Andaman and Nicobar Is.

733. **(11)** RUDDY KINGFISHER *Halcyon coromanda* R Myna +: 26 cm. Dense evergreen jungle at streams and pools, and mangrove swamps. The terai and duars from Nepal to Assam; NE hill states to Bangladesh and W Bengal; up to c. 1800 m; Andaman Is.

735. **(13)** WHITEBREASTED KINGFISHER *Halcyon smyrnensis* R Myna +: 28 cm. Canals, streams, reservoirs, cultivation, gardens and edges of forest often away from water. Subcontinent.

739. **(8)** BLACKCAPPED KINGFISHER *Halcyon pileata* R Myna +: 30 cm. Along seashore, mangrove swamps, creeks and estuaries. Coastal Bangladesh and round the peninsular seaboard west to Bombay; Andaman and Nicobar Is.; Sri Lanka.

740. **(10)** WHITECOLLARED KINGFISHER *Halcyon chloris* R Myna +: 24 cm. Mangrove swamps. Coastal Maharashtra and possibly further south; coast of Orissa, W Bengal and Bangladesh; Andaman and Nicobar Is.

763. **(14)** HOOPOE *Upupa epops* RM Myna +: 31 cm. Open hillsides, cultivation, light forest and near villages. Subcontinent.

PLATE 59

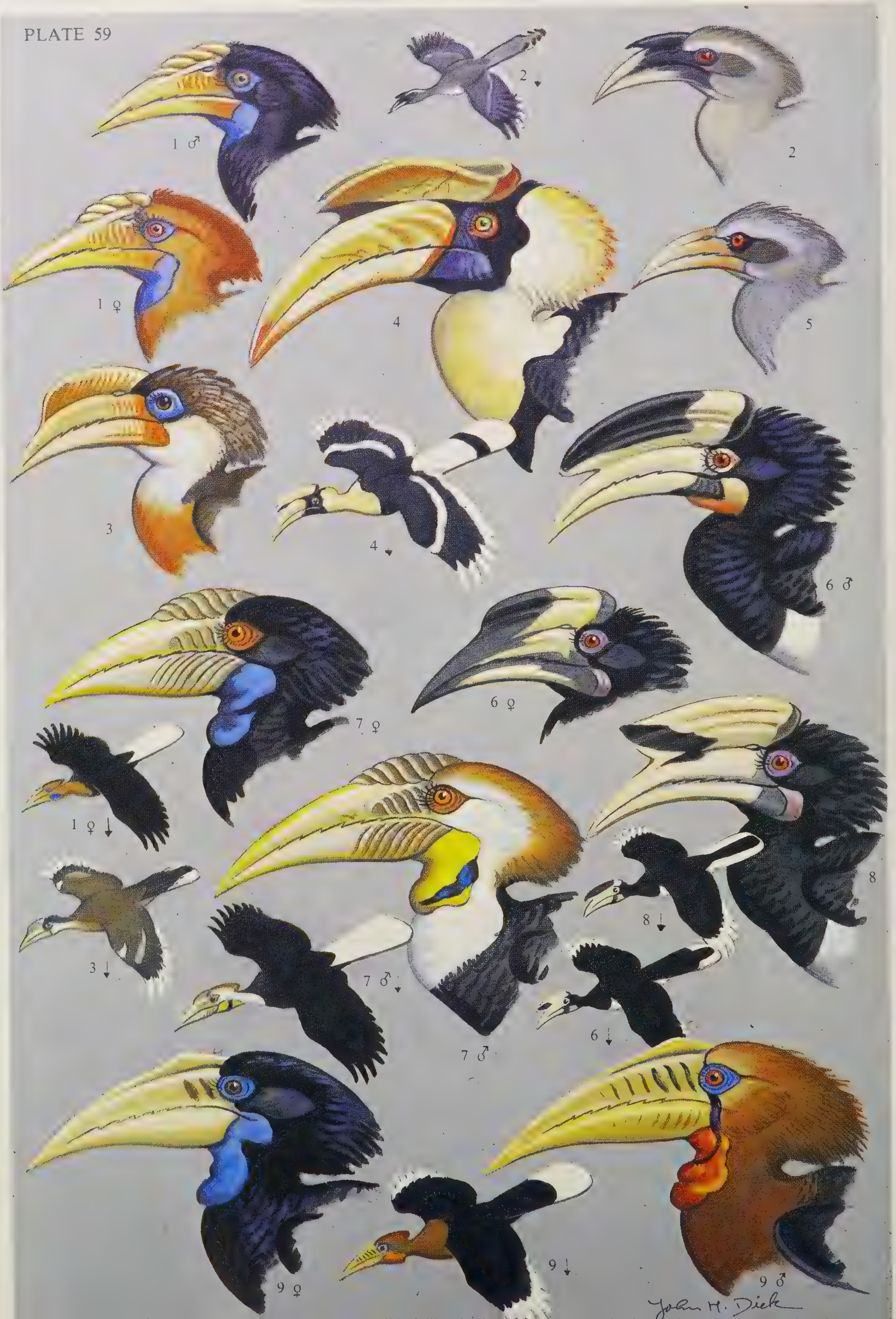
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PLATE 59

767. **(2)** COMMON GREY HORNBILL *Tockus birostris* R Kite ±: 61 cm. Deciduous forest and groves near cultivation. Pakistan (Punjab) and India from Himalayan foothills south to Kerala.

768. **(5)** MALABAR GREY HORNBILL *Tockus griseus* R Kite ±: 59 cm. Open evergreen and moist-deciduous forest. W Ghats complex from Bombay south to Kerala and W Tamil Nadu; Sri Lanka, up to c. 1600 m.

770. **(3)** WHITETHROATED BROWN HORNBILL *Ptilolaemus tickelli* R Kite +: ♂ 76 cm; ♀ smaller. Evergreen forest. E Assam, Arunachal Pradesh?, Nagaland?, Manipur? Up to c. 900 m.

771. **(9)** RUFOUSNECKED HORNBILL *Aceros nipalensis* R Vulture +: 122 cm. Tall evergreen forest up to c. 1800 m. E Himalayan foothills; NE hill states; Bangladesh (Chittagong hill tracts).

772. **(7)** WREATHED HORNBILL *Rhyticeros undulatus* R Vulture +: ♂ 114 cm; ♀, with shorter bill, 98 cm. Evergreen forest and edges of clearings up to c. 2400 m. Sub-Himalayan duars and foothills from N Bengal and Bhutan east to Arunachal Pradesh; NE hill states; Bangladesh (Chittagong hill tracts).

773. **(1)** NARCONDAM HORNBILL *Rhyticeros plicatus* R (endemic) Kite +: ♂ 66 cm; ♀ smaller. Narcondam I., Andamans.

774. **(6)** INDIAN PIED HORNBILL *Anthracoceros malabaricus* R Vulture −: ♂ 89 cm; ♀ smaller. Moist-deciduous and remnant evergreen forest. From Haryana through Uttar Pradesh, Nepal, Sikkim, Bengal, Bhutan, Arunachal Pradesh, south to Manipur and the hills of Bangladesh and Bihar; E Ghats south to Bastar district and E Andhra Pradesh.

775. **(8)** MALABAR PIED HORNBILL *Anthracoceros coronatus* R Vulture ±: ♂ 92 cm; ♀ smaller. Remnant evergreen and moist-deciduous forest. E India from Uttar Pradesh and Bihar south through Orissa and Andhra Pradesh; also in the SW from Ratnagiri south through Karnataka, Tamil Nadu and Kerala; Sri Lanka.

776. **(4)** GREAT PIED HORNBILL *Buceros bicornis* R Vulture +: ♂ 130 cm; ♀ smaller. Evergreen and moist-deciduous forest. Lower Himalayas (up to c. 2100 m.) from Kumaon east to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh (Chittagong hill tracts); W Ghats complex from Khandala south through Kerala, up to c. 1500 m.

PLATE 60

778. **(4)** GREAT HILL BARBET *Megalaima virens* R Myna +: 33 cm. Subtropical evergreen and moist-temperate forest, c. 1000-3000 m. Himalayas; NE hill states; Bangladesh (Chittagong region).

782. **(3)** LARGE GREEN BARBET *Megalaima zeylanica* R Myna +: 27 cm. Well-wooded moist- and dry-deciduous country, often entering gardens within city limits. Subcontinent; Sri Lanka.

784. **(1)** LINEATED BARBET *Megalaima lineata* R Myna +: 28 cm. Moist-deciduous and light secondary forest, and gardens. Lower Himalayas (up to c. 1000 m) from Dehra Dun east through Arunachal Pradesh; NE hill states; Bangladesh; N Orissa.

785. **(2)** SMALL GREEN BARBET *Megalaima viridis* R Myna ±: 23 cm. Evergreen and moist-deciduous forest, gardens and groves. W Ghats complex from Narmada river south through Kerala; Shevaroy and Chitteri hills.

786. **(7)** YELLOWFRONTED BARBET *Megalaima flavifrons* R Myna –: 21 cm. Light forest and orchards. Sri Lanka.

787. **(6)** GOLDENTHROATED BARBET *Megalaima franklinii* R Myna ±: 23 cm. Evergreen forest between c. 600 and 2400 m. E Himalayas; NE hill states; Bangladesh (Chittagong region).

788. **(5)** BLUETHROATED BARBET *Megalaima asiatica* R Myna ±: 23 cm. Light deciduous and evergreen forest and groves. Lower Himalayas (up to c. 2000 m) from Kashmir east to Arunachal Pradesh; south to Manipur, Chittagong and Calcutta.

789. **(11)** BLUE-EARED BARBET *Megalaima australis* R Sparrow +: 17 cm. Dense evergreen forest up to c. 1200 m. E Himalayan foothills, terai and duars; NE hill states; Bangladesh (Chittagong region).

790. **(9)** CRIMSONTHROATED BARBET *Megalaima rubricapilla malabarica* R Sparrow +: 17 cm. Evergreen forest up to c. 1200 m. W Ghats complex from Goa south through Kerala.

791. **(10)** CRIMSONTHROATED BARBET *Megalaima rubricapilla rubricapilla* R Sparrow +: 17 cm. Open wooded country. Sri Lanka.

792. **(8)** CRIMSONBREASTED BARBET, COPPERSMITH *Megalaima haemacephala* R Sparrow +: 17 cm. Dry- and moist-deciduous biotope. Subcontinent.

819. **(13)** LESSER GOLDENBACKED WOODPECKER *Dinopium benghalense* R Myna +: 29 cm. Dry- and moist-deciduous biotope. Pakistan and the rest of the Subcontinent.

823. **(14)** Sri Lanka ssp. *psarodes* of 819.

824. **(15)** HIMALAYAN GOLDENBACKED THREETOED WOODPECKER *Dinopium shorii* R Pigeon ±: 31 cm. Tall deciduous and semi-evergreen forest up to c. 1200 m. Himalayan foothills and terai from Haryana eastward; NE hill states; hills of Bangladesh.

825. **(16)** INDIAN GOLDENBACKED THREETOED WOODPECKER *Dinopium javanense* R Myna +: 28 cm. Moist-deciduous and evergreen forest. SW India from Goa south through Kerala and adjacent hills of Tamil Nadu; Assam, NE hill states (?), Bangladesh (Chittagong region).

858. **(12)** BLACKBACKED WOODPECKER *Chrysocolaptes festivus* R Pigeon –: 29 cm. Deciduous forest. From Dehra Dun, C Rajasthan and E Gujarat to lower Bengal, and from Oudh terai, SW Nepal and S Bihar to Kerala; Sri Lanka.

861. **(17)** LARGER GOLDENBACKED WOODPECKER *Chrysocolaptes lucidus* R Pigeon ±: 33 cm. Evergreen, semi-evergreen and moist-deciduous forest. Himalayas: Garhwal through Nepal east to Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; Bengal, Bihar and E Uttar Pradesh to Orissa; N Andhra Pradesh and SE Madhya Pradesh: W Ghats complex south from the Tapti river; Sri Lanka.

863. **(18)** Sri Lanka ssp. *stricklandi* of 861.

PLATE 6

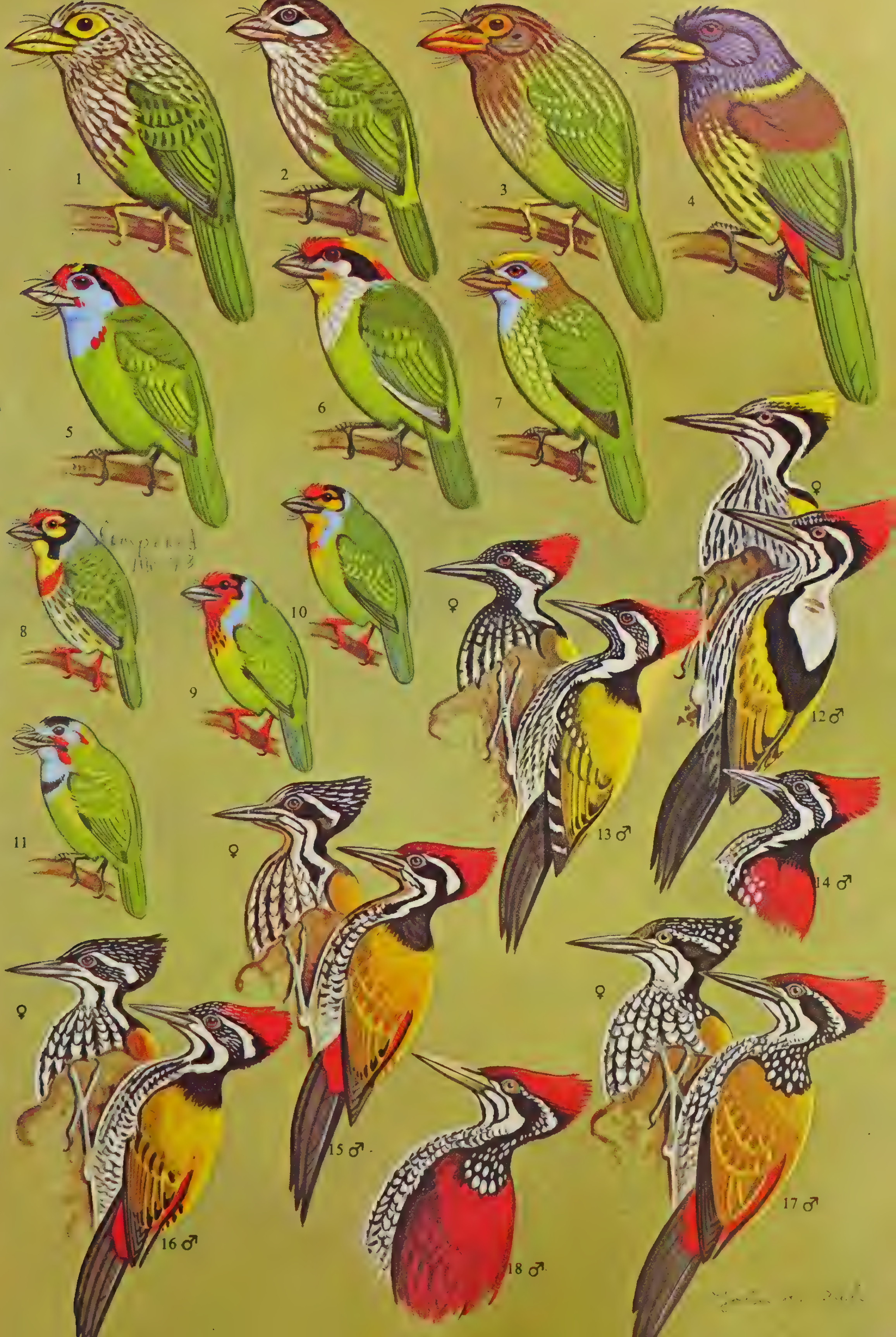
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PLATE 61

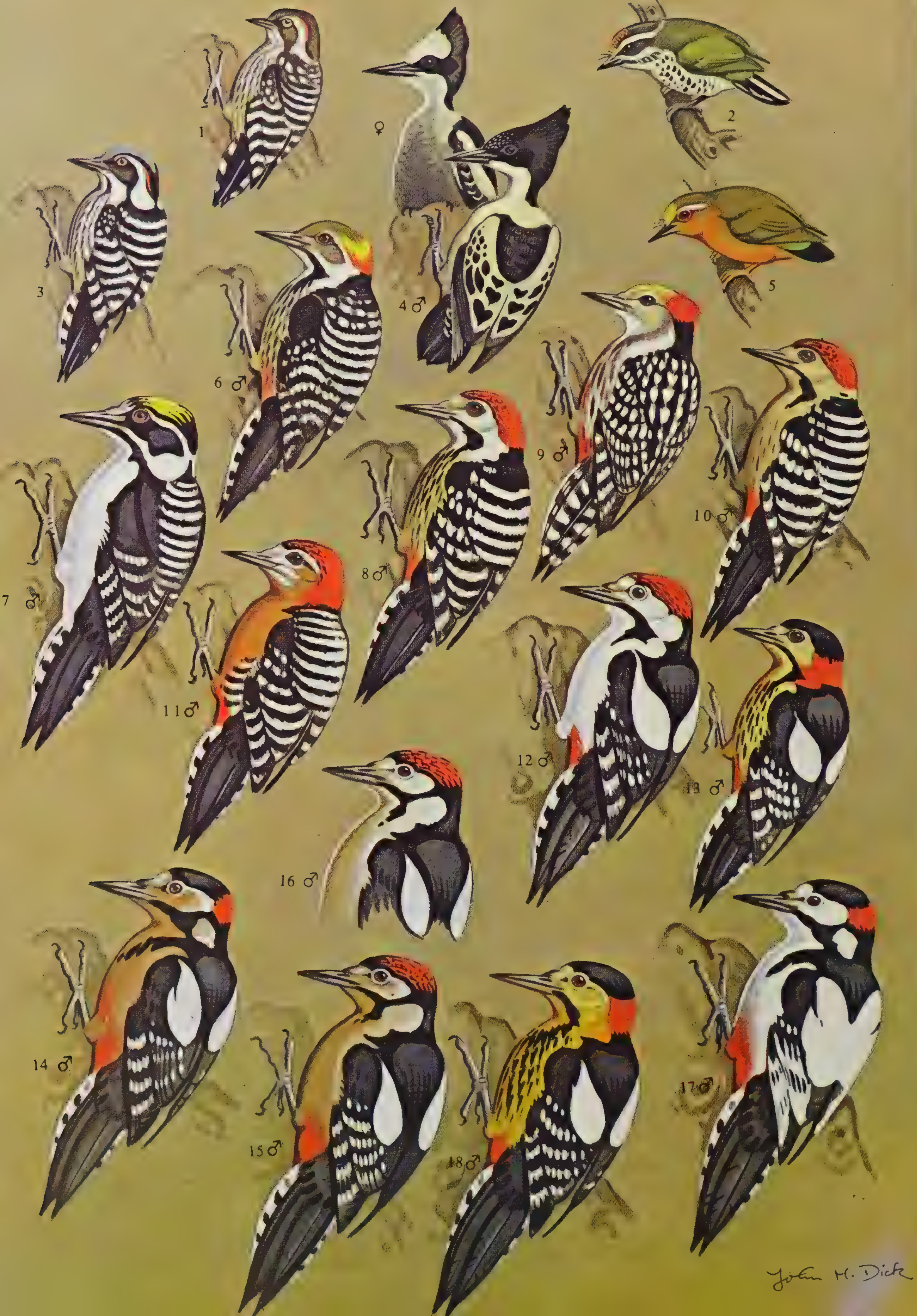
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PLATE 61

798. **(2)** SPECKLED PICULET *Picumnus innominatus* R Sparrow – : 10 cm. Moist-deciduous and semi-evergreen forest up to 2000 m. Lower Himalayas from Kashmir east to Arunachal Pradesh; Assam; NE hill states; Bangladesh; W and E Ghat complexes; Orissa; lower Bengal.

800. **(5)** RUFOUS PICULET *Sasia ochracea* R Sparrow – : 9 cm. Semi-evergreen and deciduous secondary scrub and bamboo jungle. Lower Himalayas, Garhwal east to Arunachal Pradesh; NE hill states; Bangladesh; up to c.. 2100 m.

833. **(11)** RUFOUSBELLIED WOODPECKER or SAPSUCKER *Hypopicus hyperythrus* R Bulbul ± : 20 cm. Subtropical pine and moist temperate forest. Kashmir and Ladakh east through Kumaon to Arunachal Pradesh; NE hill states; Bangladesh; c. 800-4100 m.

834. **(14)** GREAT SPOTTED, or REDCROWNED PIED, WOODPECKER *Picoides major* R Myna ± : 24 cm. Oak, pine and subtropical wet forest. Assam; NE hill states; c. 2000-3000 m.

835. **(12)** SIND PIED WOODPECKER *Picoides assimilis* R Myna – :. 22 cm. Dry scrub jungle up to c . 1000 m. Indus valley; Baluchistan (up to c. 2000 m); Salt Range and foothills of Kohat and Rawalpindi.

836. **(16)** Ssp. *albescens* of 837. Safed Koh, Chitral, Gilgit to Himachal Pradesh.

837. **(15)** HIMALAYAN PIED WOODPECKER *Picoides himalayensis* R Myna ± : 25 cm. Hill forest of fir, oak, etc. Kashmir, Himachal Pradesh, Garhwal, Kumaon and W Nepal; c. 1500 m and above.

838. **(18)** DARJEELING PIED WOODPECKER *Picoides darjellensis* R Myna ± : 25 cm. Pine, oak, rhododendron and subtropical wet forest, from c. 1700 m to timber-line. E Himalayas; NE hill states.

840. **(13)** CRIMSONBREASTED PIED WOODPECKER *Picoides cathpharius* R Bulbul – : 18 cm. Moist-deciduous and evergreen forest. E Himalayas; NE hill states. Optimum zone 1800-3000 m.

842. **(6)** BROWNFRONTED PIED WOODPECKER *Picoides auriceps* R Bulbul ± : 20 cm. Pine, oak and deodar forest. Baluchistan north to Chitral and east along the Himalayas to Nepal; c. 1000-3100 m.

844. **(8)** STRIPEBREASTED PIED WOODPECKER *Picoides atratus* R Bulbul ± : 21 cm. Pine and oak forest up to c. 1500 m. Assam and NE hill states.

845. **(10)** FULVOUSBREASTED PIED WOODPECKER *Picoides macei* R Bulbul – : 19 cm. All types of open forest and wooded country up to c. 2000 m. Himalayan foothills and terai east to Bhutan; E India; Bangladesh; Bihar and Orissa to Andhra Pradesh; Andaman Is.

847. **(9)** YELLOWFRONTED PIED WOODPECKER *Picoides mahrattensis* R Bulbul – : 18 cm. Semi-desert to moist-deciduous biotope. Subontinent west to Indus river.

850. **(3)** GREYCROWNED PIGMY WOODPECKER *Picoides canicapillus* R Sparrow – : 14 cm. Open tropical semi-evergreen forest up to c. 1700 m. Lower Himalayas; NE hill states; Bangladesh.

855. **(7)** THREETOED WOODPECKER *Picoides tridactylus* R Myna ± : 23 cm. Conifer and deciduous forest. Arunachal Pradesh, between c. 3000 and 3800 m.

856. **(4)** HEARTSPOTTED WOODPECKER *Hemicircus canente* R Sparrow + : 16 cm. Moist-deciduous and secondary evergreen forest. W Ghats complex from Kerala north to Tapti river and east to Madhya Pradesh and Orissa; Bangladesh; NE hill states.

EL. **(17)** WHITEMANTLED WOODPECKER *Dendrocopos leucopterus* Central Asia.

EL. **(1)** BROWNCAPPED WOODPECKER *Dendrocopos moluccensis* Malaysia.

PLATE 62

796. **(1)** WRYNECK *Jynx torquilla* M Bulbul – : 19 cm. Thorn jungle, open deciduous scrub and cultivation. Subcontinent.

804. **(14)** RUFOUS WOODPECKER *Micropternus brachyurus* R Myna + : 25 cm. Moist-deciduous biotope. Subcontinent; Sri Lanka.

807. **(6)** SCALYBELLIED GREEN WOODPECKER *Picus squamatus* R Pigeon + : 35 cm. Open evergreen mixed oak and pine forest, and orchards. N Baluchistan; W Himalayas; c. 1000-3300 m.

808. **(7)** LITTLE SCALYBELLIED GREEN WOODPECKER *Picus myrmecophoneus* R Myna + : 29 cm. Semi-evergreen, moist-deciduous and sal forest. Haryana, Rajasthan and Gujarat east to Bangladesh; Sri Lanka.

809. **(5)** BLACKNAPED GREEN WOODPECKER *Picus canus* R Pigeon ± : 32 cm. Moist subtropical and temperate forest up to c. 2400 m. Himalayas, 3000-3500 m; NE hill states; Bangladesh to Orissa.

813. **(4)** LARGE YELLOWNAPED WOODPECKER *Picus flavinucha* R Pigeon ± : 33 cm. Mixed evergreen and deciduous forest. Himalayan foothills up to c. 2000 m; E India, Bangladesh and hills of S Bihar and Orissa.

815. **(2)** SMALL YELLOWNAPED WOODPECKER *Picus chlorolophus* R Myna + : 27 cm. Mixed deciduous and evergreen secondary jungle. Himalayas up to c. 2100 m; E India; Bangladesh; Bihar..

816. **(3)** Ssp. *chlorigaster* of 815. Peninsular India south of the Satpuras; Sri Lanka.

827. **(12)** PALEHEADED WOODPECKER *Gecinulus grantia* R Myna + : 25 cm. Moist-deciduous bamboo and scrub jungle up to c. 1000 m. E Himalayas; Assam; NE hill states; Bangladesh (hills).

828. **(10)** HIMALAYAN GREAT SLATY WOODPECKER *Mulleripicus pulverulentus* R Crow + : 51 cm. Sal and tropical semi-evergreen forest. Himalayan terai and foothills up to 1200 m; NE hill states; Bangladesh.

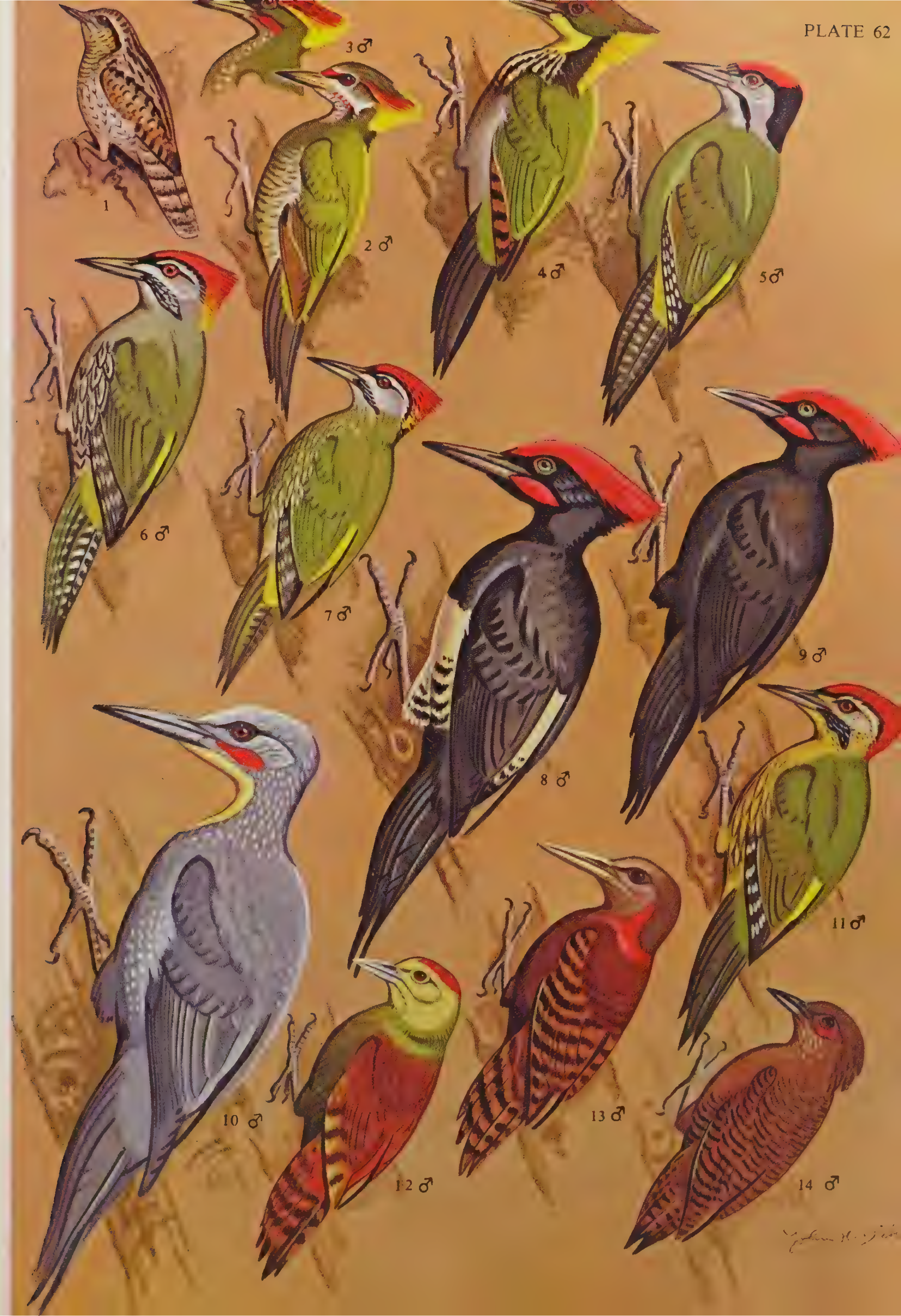
830. **(8)** INDIAN GREAT BLACK WOODPECKER *Dryocopus javensis* R Crow + : 48 cm. Evergreen and moist-deciduous forest, up to c. 1200 m. The entire W Ghats complex south to Kerala; E Madhya Pradesh; possibly E Ghats complex?

831. **(9)** Andaman ssp. of 830. *Dryocopus javensis hodgei* Restricted to Andaman Is.

857. **(13)** REDEARED BAY WOODPECKER *Blythipicus pyrrhotis* R Pigeon – : 27 cm. Dense forest. E Himalayas up to c. 2000 m; NE hill states; Bangladesh.

EL. **(11)** LACED WOODPECKER *Picus vittatus* SE Asia.

PLATE 62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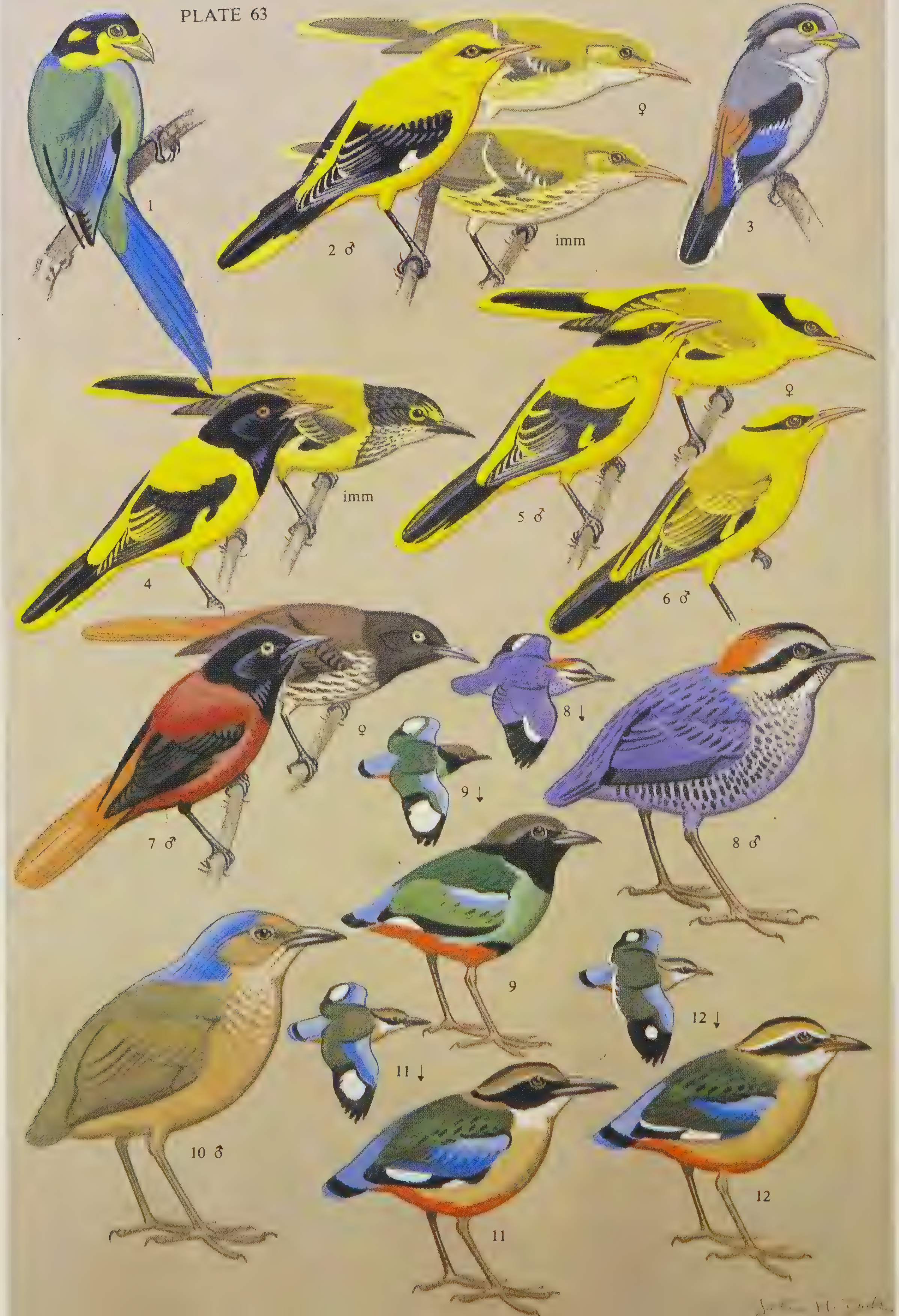

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PLATE 63

864. **(3)** COLLARED BROADBILL *Serilophus lunatus* R Bulbul ±: 19 cm. Tropical evergreen and semi-evergreen forest. E Himalayas; NE hill states; Bangladesh (hills); up to c. 1700 m.

865. **(1)** LONGTAILED BROADBILL *Psarisomus dalhousiae* R Bulbul +: 27 cm. Tropical and subtropical evergreen forest. E Himalayas west to Garhwal; NE hill states; Bangladesh (hills); up to c. 2000 m.

866. **(10)** BLUENAPED PITTA *Pitta nipalensis* R Quail +: 25 cm. Tropical and subtropical secondary evergreen and bamboo jungle. E Himalayas; NE hill states; Bangladesh (hills); up to c. 2000 m.

867. **(12)** INDIAN PITTA *Pitta brachyura* R Quail ±: 19 cm. Scrub jungle, light deciduous or dense evergreen forest. Subcontinent.

868. **(11)** BLUEWINGED PITTA *Pitta moluccensis* V Quail +: 23 cm. Single record, Bangladesh (Barisal).

869. **(9)** HOODED, or GREENBREASTED, PITTA *Pitta sordida* R Quail ±: 19 cm. Moist-deciduous and evergreen secondary forest and scrub jungle. From C Nepal and lower Bengal east; up to c. 2000 m; Nicobar Is.

871. **(8)** BLUE PITTA *Pitta cyanea* R Quail +: 23 cm. Evergreen and bamboo forest. E Himalayas; NE hill states; Bangladesh (hills); up to c. 2000 cm.

952. **(2)** GOLDEN ORIOLE *Oriolus oriolus* RM Myna +: 25 cm. Deciduous and semi-evergreen biotope: groves, orchards, cultivation, gardens, etc. Subcontinent.

954. **(5)** BLACKNAPED ORIOLE *Oriolus chinensis diffusus* RM Myna +: 25 cm. Mixed deciduous and evergreen jungle, plantations, gardens. Subcontinent; Andaman and Nicobar Is.

955. **(6)** SLENDERBILLED BLACKNAPED ORIOLE *Oriolus chinensis tenuirostris* RM Myna +: 25 cm. Pine forest and semi-evergreen jungle. *Breeding:* E Himalayan foothills west to Bhutan. *Winter:* Bangladesh; Bihar; C Nepal; c. 1500-2100 m.

958. **(4)** BLACKHEADED ORIOLE *Oriolus xanthornus* R Myna +: 25 cm. Topical moist-deciduous biotope: Light forest, plantations, village groves, gardens, etc. Subcontinent; Sri Lanka; Andaman Is.

961. **(7)** MAROON ORIOLE *Oriolus traillii* R Myna +: 28 cm. Moist-deciduous and evergreen forest. Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 2400 m.

PLATE 64

872. **(1)** SINGING BUSH LARK *Mirafra javanica* R Sparrow ±: 15 cm. Grassland, fallow cultivation and sparse scrubby semi-desert. Pakistan and most of the Subcontinent; Sri Lanka.

873. **(2)** BUSH LARK *Mirafra assamica* R Sparrow ±: 15 cm. Semi-desert, sparse scrub jungle, grassland and cultivation. From Haryana eastwards, south to N Orissa and N Madhya Pradesh.

874. **(3)** Ssp. *affinis* of 873. S Orissa, SE Madhya Pradesh and Belgaum south; Sri Lanka.

877. **(4)** REDWINGED BUSH LARK *Mirafra erythroptera* R Sparrow ±: 14 cm. Sparse scrub jungle and fallow land at low elevations. Plains of Pakistan, NW India and most of the Subcontinent.

878. **(5)** ASHYCROWNED FINCH-LARK *Eremopterix grisea* R Sparrow –: 13 cm. Sparsely scrubbed waste land, stubble and ploughed fields. Subcontinent.

879. **(6)** BLACKCROWNED FINCH-LARK *Eremopterix nigriceps* R Sparrow –: 13 cm. Sandy waste land near cultivation. Plains of Pakistan and NW India to Delhi, Rajasthan and Kathiawar.

880. **(7)** DESERT FINCH-LARK *Ammomanes deserti* R Sparrow ±: 16 cm. Fallow land and barren stony ground. Pakistan east to Sind, Bahawalpur, Punjab and India in Jammu and Kashmir; up to c. 2000 m.

881. **(10)** BARTAILED DESERT LARK *Ammomanes cincturus* R Sparrow ±: 16 cm. Barren rocky ground. Baluchistan and W Sind; up to c. 1500 m.

882. **(9)** RUFOUSTAILED FINCH-LARK *Ammomanes phoenicurus* R Sparrow ±: 16 cm. Open stony scrub-and-bush plains and plateau country, fallow land and near cultivation. Pakistan, N India and most of the Subcontinent except the NE, and Kerala. Absent also in Sri Lanka.

884. **(8)** BIFASCIATED, or LARGE DESERT, LARK *Alaemon alaudipes* R Myna ±: 23 cm. Sandy desert and saltflats. Pakistan: Baluchistan to Bahawalpur and Sind. India: Rann of Kutch.

886. **(14)** SHORT-TOED LARK *Calandrella cinerea* M Sparrow ±: 15 cm. Stony grassland, sandy semi-desert and saltflats. Subcontinent. Absent in Sri Lanka, Andaman and Nicobar Is.

888a. **(13)** LESSER SHORT-TOED LARK *Calandrella rufescens* M Sparrow ±: 15 cm. Semi-desert and waste land. Winter visitor to Pakistan. Passage migrant in Gilgit.

891. **(15)** SAND LARK *Calandrella raytal* R Sparrow –: 13 cm. Sandy river banks and islets. From Peshawar and the Makran coast to Kutch; throughout the entire Ganges and Brahmaputra river systems in N India, Assam, Bangladesh and Bengal; Madhya Pradesh south to Hoshangabad and Mhow.

892. **(11)** EASTERN CALANDRA LARK *Melanocorypha bimaculata* M Sparrow +: 16 cm. Semi-desert, fallow fields, mudflats and margins of jheels. Pakistan and NW India.

894. **(16)** LONGBILLED CALANDRA LARK *Melanocorypha maxima* R Myna –: 21 cm. Marshes and bogs around lakes. Sikkim and Bhutan above c. 3600 m; Rupshu (Ladakh) at c. 4300 m.

895. **(18)** Ssp. *albigula* of 897. Chitral and Gilgit.

897. **(17)** HORNED LARK *Eremophila alpestris* R Bulbul ±: 20 cm. Barren stony ground in Tibetan steppe facies. Hazara and Karakoram east to Bhutan and Arunachal Pradesh. Seasonally, c. 3000-5500 m.

899. **(20)** CRESTED LARK *Galerida cristata* R Sparrow +: 18 cm. Sandy semi-desert and cultivated plains. Pakistan and N India.

901. **(21)** MALABAR CRESTED LARK *Galerida malabarica* R Sparrow ±: 15 cm. Sparse scrub jungle, grassy stony ground and semi-cultivation. W peninsular India from Gujarat south to Kerala and Tamil Nadu.

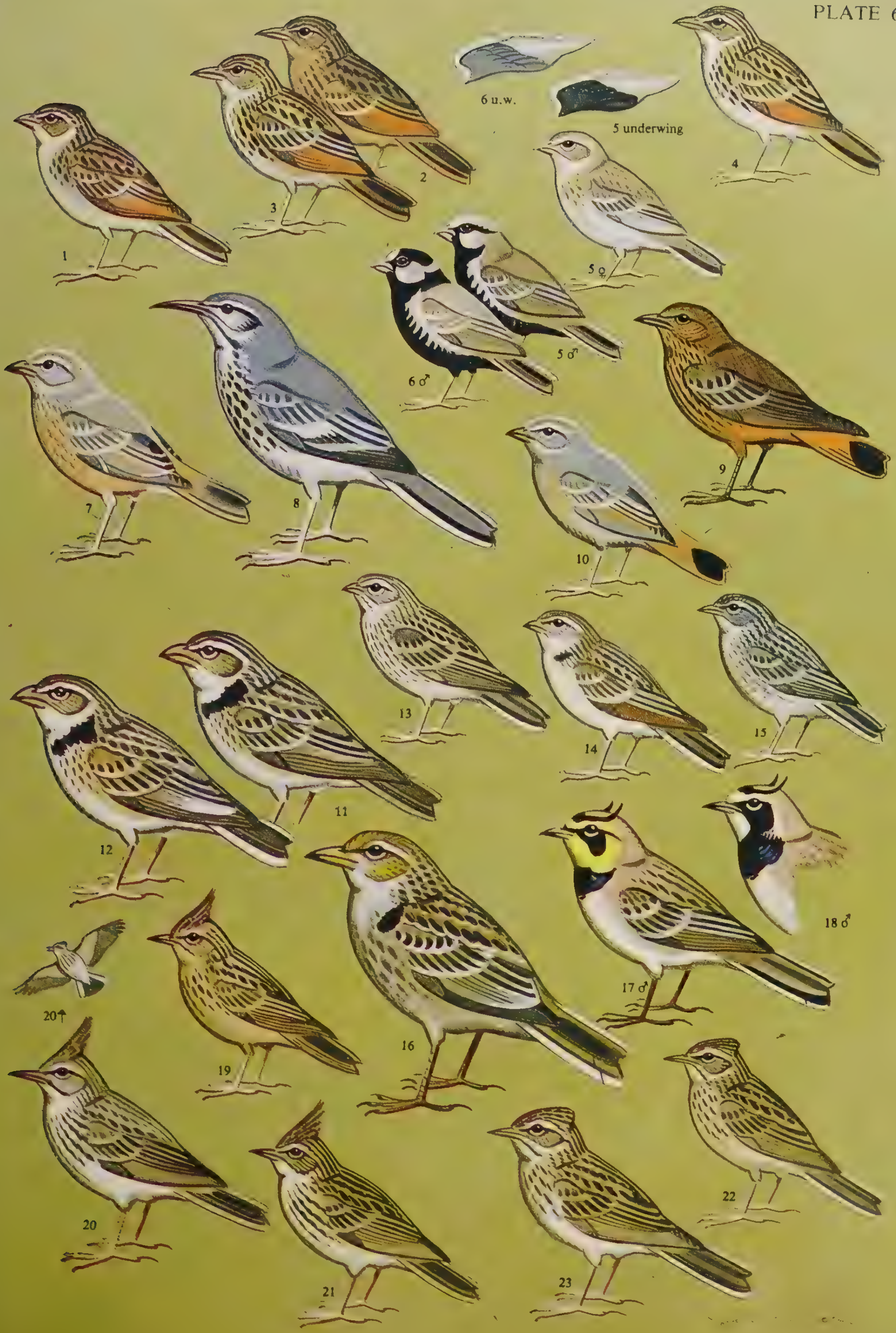
902. **(19)** SYKES'S CRESTED LARK *Galerida deva* R Sparrow ±: 13 cm. Stony, sparsely scrubbed plateau country and dry cultivation. S peninsular India.

903. **(23)** SKYLARK *Alauda arvensis* M Sparrow +: 18 cm. Grassland and cultivation. Pakistan and N India to Uttar Pradesh and C Nepal.

907. **(22)** EASTERN SKYLARK *Alauda gulgula* R Sparrow ±: 16 cm. Grassland and young crops. Subcontinent; Sri Lanka. Absent in Andaman and Nicobar Is.

EL **(12)** CALANDRA LARK *Melanocorypha calandra* Mediterranean region and W Asia.

PLATE 64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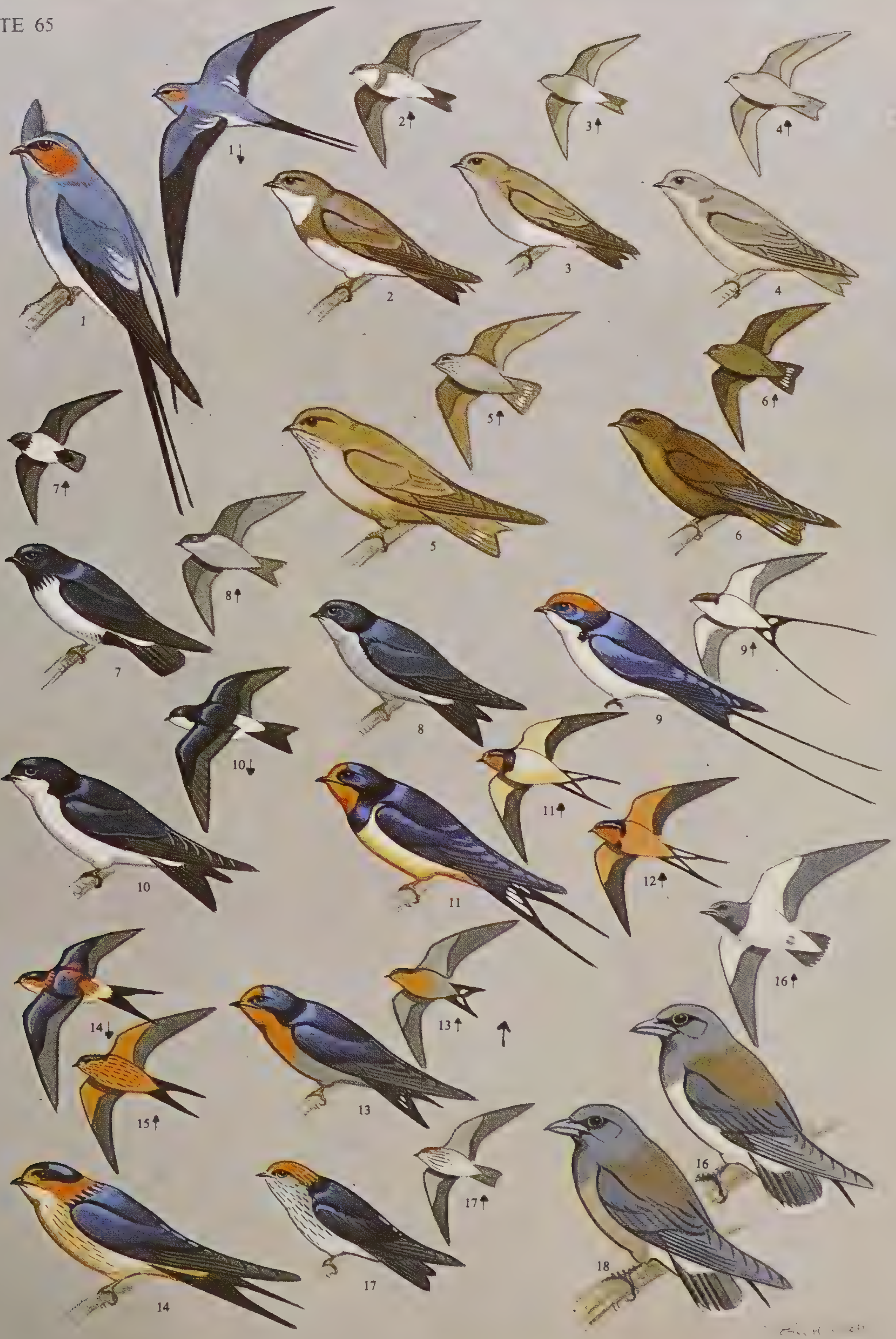
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PLATE 65

709. **(1)** CRESTED TREE SWIFT *Hemiprocne longipennis* R Bulbul ± : 23 cm. Well-wooded country. Subcontinent excepting Pakistan; Sri Lanka.

910. **(2)** COLLARED SAND MARTIN *Riparia riparia* RM Sparrow – : 13 cm. Streams and lakes. Pakistan and N Subcontinent south to Madhya Pradesh and Bihar.

912. **(3)** PLAIN SAND MARTIN *Riparia paludicola* R Sparrow – : 12 cm. River valleys. Pakistan and N Subcontinent roughly south to Bombay.

913. **(5)** CRAG MARTIN *Hirundo rupestris* RM Sparrow ± : 14 cm. Around crags and old hill forts. *Breeding:* NW Pakistan hills and through Ladakh and Kashmir to Garhwal, c. 1200-4500 m. *Winter:* Pakistan, N, C, and W India.

914. **(6)** DUSKY CRAG MARTIN *Hirundo concolor* R Sparrow – : 13 cm. Vicinity of crags, forts, old buildings, etc. Practically all Subcontinent.

915. **(4)** PALE CRAG MARTIN *Hirundo obsoleta* R Sparrow – : 13 cm. Vicinity of cliffs in bare foothills. Baluchistan; Sind; NWFP.

916. **(11)** SWALLOW *Hirundo rustica* RM Sparrow ± , with long forked tail: overall 18 cm. Open cultivated country, and around human settlements. *Breeding:* Pakistan and along the Himalayas up to c. 3000 m. *Winter:* Subcontinent.

918. **(12)** Migrant ssp. *tytleri* of 916. Bangladesh and Bengal eastwards (winter).

919. **(13)** HOUSE SWALLOW *Hirundo tahitica* R Sparrow – : 13 cm. Grassy slopes and near settlements. W Ghats complex in SW India; Sri Lanka; Andaman Is.

921. **(9)** WIRETAILED SWALLOW *Hirundo smithii* R Sparrow ± : 14 cm. Open country, cultivation, near water. Subcontinent.

922. **(17)** INDIAN CLIFF SWALLOW *Hirundo fluvicola* R Sparrow – : 12 cm. Open country and cultivation around rivers and canals. Pakistan; N India.

923. **(14)** STRIATED, or REDRUMPED, SWALLOW *Hirundo daurica* RM Sparrow ± , with longer tail: overall 20-23 cm. Open, broken or cultivated country. Subcontinent.

928. **(15)** Sri Lanka ssp. *hyperythra* of 923.

930. **(10)** HOUSE MARTIN *Delichon urbica* RM Sparrow ± : 15 cm. Around cliffs. Pakistan and Himalayas east to Arunachal Pradesh. Occasionally wintering as far south as Kerala.

932. **(7)** NEPAL HOUSE MARTIN *Delichon nipalensis* R Sparrow – : 13 cm. River valleys, mountain ridges, etc. Himalayas from Garhwal to Arunachal Pradesh; NE hill states; seasonally c. 300-4000 m.

982. **(18)** ASHY SWALLOW-SHRIKE *Artamus fuscus* R Bulbul ± : 19 cm. Open dry – and moist-deciduous country, closely associated with palms. Subcontinent; Sri Lanka.

983. **(16)** WHITEBREASTED SWALLOW-SHRIKE *Artamus leucorhynchus* R Bulbul ± : 18 cm. Open wooded country, forest clearings and rubber plantations. Andaman Is.

EL. **(8)** ASIAN HOUSE MARTIN *Delichon dasypus* S and E Asia: Indonesia, etc.

PLATE 66

1065. **(12)** PIED FLYCATCHER-SHRIKE *Hemipus picatus* R Sparrow ±: 14 cm. Dry – and moist-deciduous biotope: light forest. Lower Himalayas: Simla to Arunachal Pradesh; NE hill states; Bangladesh; c. 600-1800 m; C and peninsular India; Sri Lanka.

1068. **(13)** LARGE WOOD SHRIKE *Tephrodornis virgatus* R Myna ±: 23 cm. Tall trees in evergreen and moist-deciduous forest. W Ghats complex, up to c. 1300 m; E Himalayas; NE hill states; Bangladesh up to c. 1000 m.

1070. **(10)** COMMON WOOD SHRIKE *Tephrodornis pondicerianus* R Bulbul –: 16 cm. Dry-deciduous scrub, secondary jungle, gardens, etc. Subcontinent; Sri Lanka.

1072. **(11)** LARGE CUCKOO-SHRIKE *Coracina novaehollandiae* R Pigeon –: 28 cm. Deciduous and mixed forest, scrub and cultivation. Lower Himalayas; NE hill states; most of Subcontinent; Sri Lanka; Andaman Is.

1076. **(17)** BARRED CUCKOO-SHRIKE *Coracina striata* R Myna +: 26 cm. Heavy moist evergreen forest. Andaman Is.

1077. **(16)** SMALLER GREY CUCKOO-SHRIKE *Coracina melaschistos* M Myna –: 22 cm. Open forest, pine, oak and chestnut woods and bamboo jungle. *Summer:* Lower Himalayas; NE hill states, 600-2100 m. *Winter:* Most of N and peninsular India.

1078. **(14)** BLACKHEADED CUCKOO-SHRIKE *Coracina melanoptera* RM Bulbul ±: 20 cm. Open deciduous forest and scrub jungle. Practically all Subcontinent; Sri Lanka.

1079a. **(15)** PIED CUCKOO-SHRIKE *Coracina nigra* R Bulbul –: 18 cm. Forest edges and secondary growth. Andaman and Nicobar Is.

1080. **(9)** Ssp. *speciosus* of 1081. Himalayan foothills (to c. 2700 m) and adjacent plains; NE hill states; continental India.

1081. **(8)** SCARLET MINIVET *Pericrocotus flammeus* R Bulbul ±: 20 cm. Deciduous, mixed and evergreen forest: Plains and hills. SW peninsular India; Sri Lanka.

1084. **(5)** SHORTBILLED MINIVET *Pericrocotus brevirostris* R Bulbul –: 17 cm. Open deciduous forest, edges of evergreen, and secondary growth. E Himalayas; NE hill states; c. 1800-2400 m.

1085. **(6)** LONGTAILED MINIVET *Pericrocotus ethologus* R Bulbul –: 18 cm. Open deciduous forest. *Breeding:* Lower Himalayas; NE hill states; Bangladesh (Chittagong). *Winter:* Himalayan foothills and NW Subcontinent.

1088. **(4)** YELLOWTHROATED MINIVET *Pericrocotus solaris* R Bulbul –: 17 cm. Open deciduous or evergreen forest. E Himalayas; NE hill states; c. 1500-3000 m.

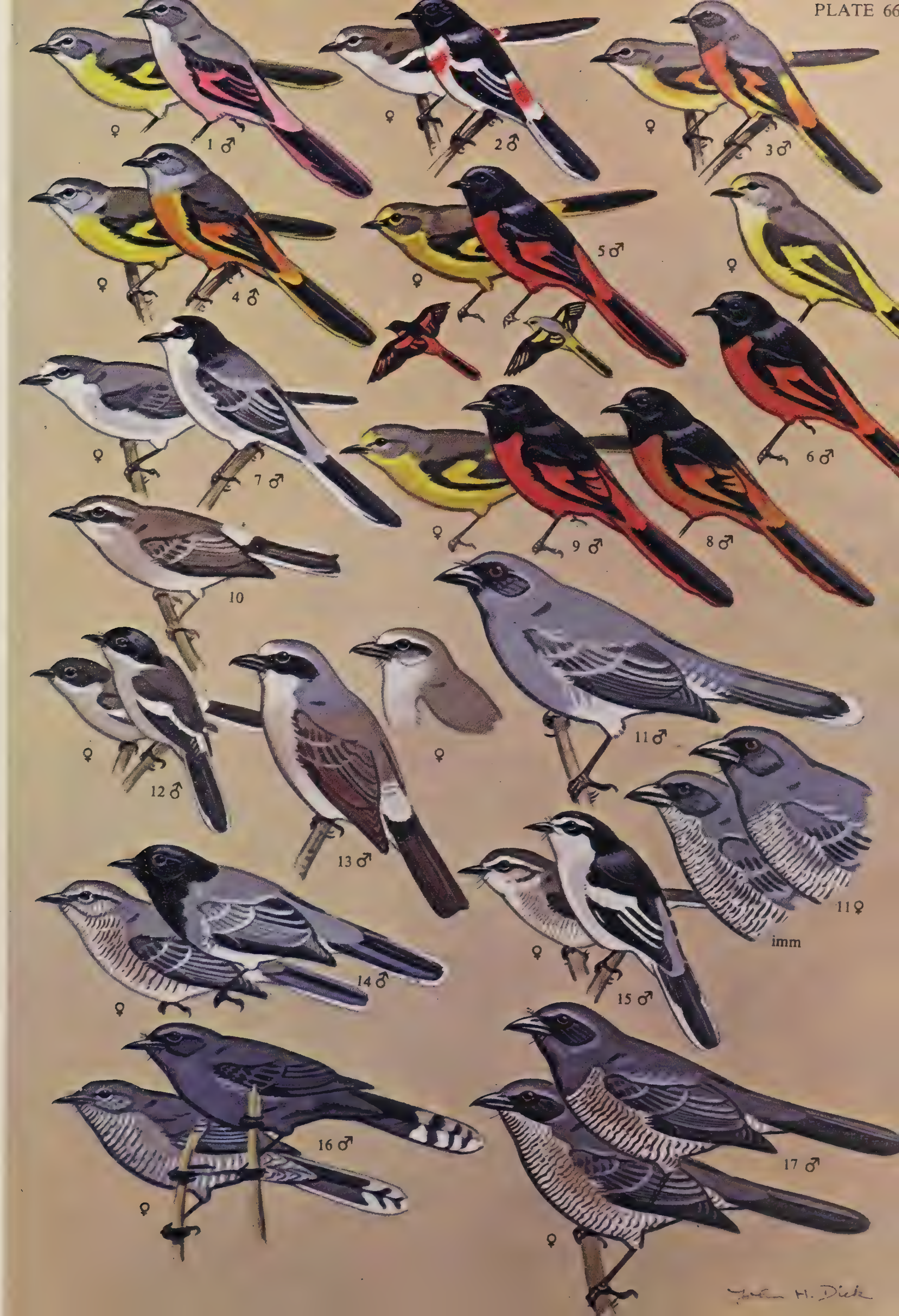
1089. **(1)** ROSY MINIVET *Pericrocotus roseus* R Bulbul –: 18 cm. Deciduous or evergreen lightly wooded country. Himalayas; NE hill states; Pakistan and N Indian plains; up to 1800 m.

1089a. **(7)** ASHY MINIVET *Pericrocotus divaricatus* V Bulbul –: 18 cm. Two records: Andaman Is. and Bombay.

1093. **(3)** SMALL MINIVET *Pericrocotus cinnamomeus* R Sparrow –, with longer tail: 15 cm. Deciduous forest, open scrub, groves of trees, etc. Subcontinent.

1096. **(2)** WHITEBELLIED MINIVET *Pericrocotus erythropygius* R Sparrow –, with longer tail: 15 cm. Dry-deciduous forest and thorn scrub. N and C India.

PLATE 66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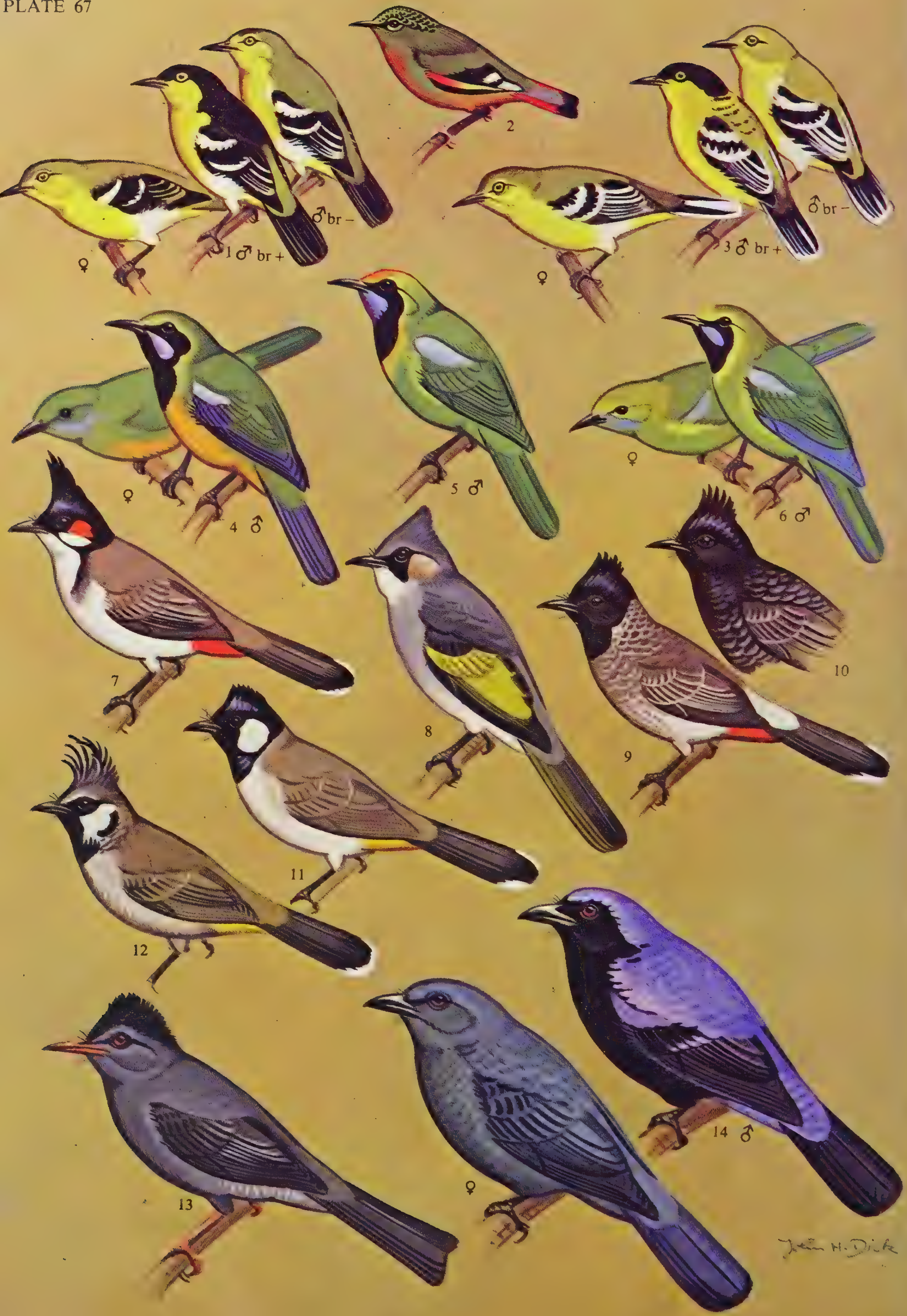
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PLATE 67

1098. **(1)** COMMON IORA *Aegithina tiphia* R Sparrow ±: 14 cm. Open forest, cultivation and scrub jungle. Subcontinent.

1102. **(3)** MARSHALL'S IORA *Aegithina nigrolutea* R Sparrow ±: 14 cm. Dry-deciduous scrub, thorn jungle and groves. Pakistan and NW India.

1103. **(5)** GOLDENFRONTED CHLOROPSIS, or LEAF BIRD *Chloropsis aurifrons* R Bulbul ±: 19 cm. Deciduous and evergreen forest and secondary scrub. Himalayan foothills and Subcontinent (minus Pakistan); Sri Lanka.

1106. **(4)** ORANGEBELLIED CHLOROPSIS, or LEAF BIRD *Chloropsis hardwickii* R Bulbul ±: 19 cm. Open scrub, deciduous and evergreen forest. Himalayas from Simla east to Arunachal Pradesh; NE hill states; Bangladesh; c. 600-2400 m.

1108. **(6)** GOLDMANTLED CHLOROPSIS, or LEAF BIRD *Chloropsis cochinchinensis* R Bulbul –: 18 cm. Deciduous and evergreen forest, gardens, groves, etc. NE hill states; Bangladesh; continental and peninsular India; Sri Lanka.

1109. **(14)** FAIRY BLUEBIRD *Irena puella* R Myna +: 27 cm. Evergreen and moist-deciduous forest. Range disjunct: 1. SW India (W Ghats complex) up to c. 1800 m. 2. E Himalayan foothills; NE hill states; hills of Bangladesh; up to c. 1200 m. 3. Andaman and Nicobar Is.

1120. **(7)** REDWHISKERED BULBUL *Pycnonotus jocosus* R Myna –: 20 cm. Scrub jungle, light forest and semi-cultivation. Subcontinent. Absent in Pakistan and Sri Lanka.

1123. **(11)** WHITECHEEKED BULBUL *Pycnonotus leucogenys leucotis* R Myna –: 20 cm. Semi-desert biotope: scrub, coastal mangroves and gardens, etc. Pakistan and NW Indian plains.

1125. **(12)** WHITECHEEKED BULBUL *Pycnonotus leucogenys leucogenys* R Myna –: 20 cm. Open scrub and cultivation, gardens, etc. Himalayan foothills, c. 2000-3000 m, from Kashmir east to Arunachal Pradesh.

1128. **(9)** REDVENTED BULBUL *Pycnonotus cafer* R Myna –: 20 cm. Cultivation and scrub. Subcontinent excepting NE India and Andaman and Nicobar Is.

1131. **(10)** Ssp. *bengalensis* of 1128. Kumaon, Uttar Pradesh, Nepal, Sikkim, Bhutan, Arunachal Pradesh, Assam, NE hill states, Bengal, Bihar, Orissa.

1147. **(8)** BROWNEARED BULBUL *Hypsipetes flavalus* R Myna –: 20 cm. Deep secondary forest, forest edges, cultivation. Himalayan foothills from Kumaon to Arunachal Pradesh; NE hill states; Bangladesh; up to c, 1600 m.

1148. **(13)** BLACK BULBUL *Hypsipetes madagascariensis* R Bulbul +: 23 cm. Tall moist-deciduous and evergreen forest. Himalayas; NE hill states; Bangladesh; W Ghats complex south of Bombay; Sri Lanka.

1338. **(2)** FIRETAILED MYZORNIS *Myzornis pyrrhoura* R Sparrow –: 12 cm. Evergreen biotope: rhododendron, juniper and other bushes along streams; heavy jungle and bamboo thickets. E Himalayas c. 1600-3600 m.

PLATE 68

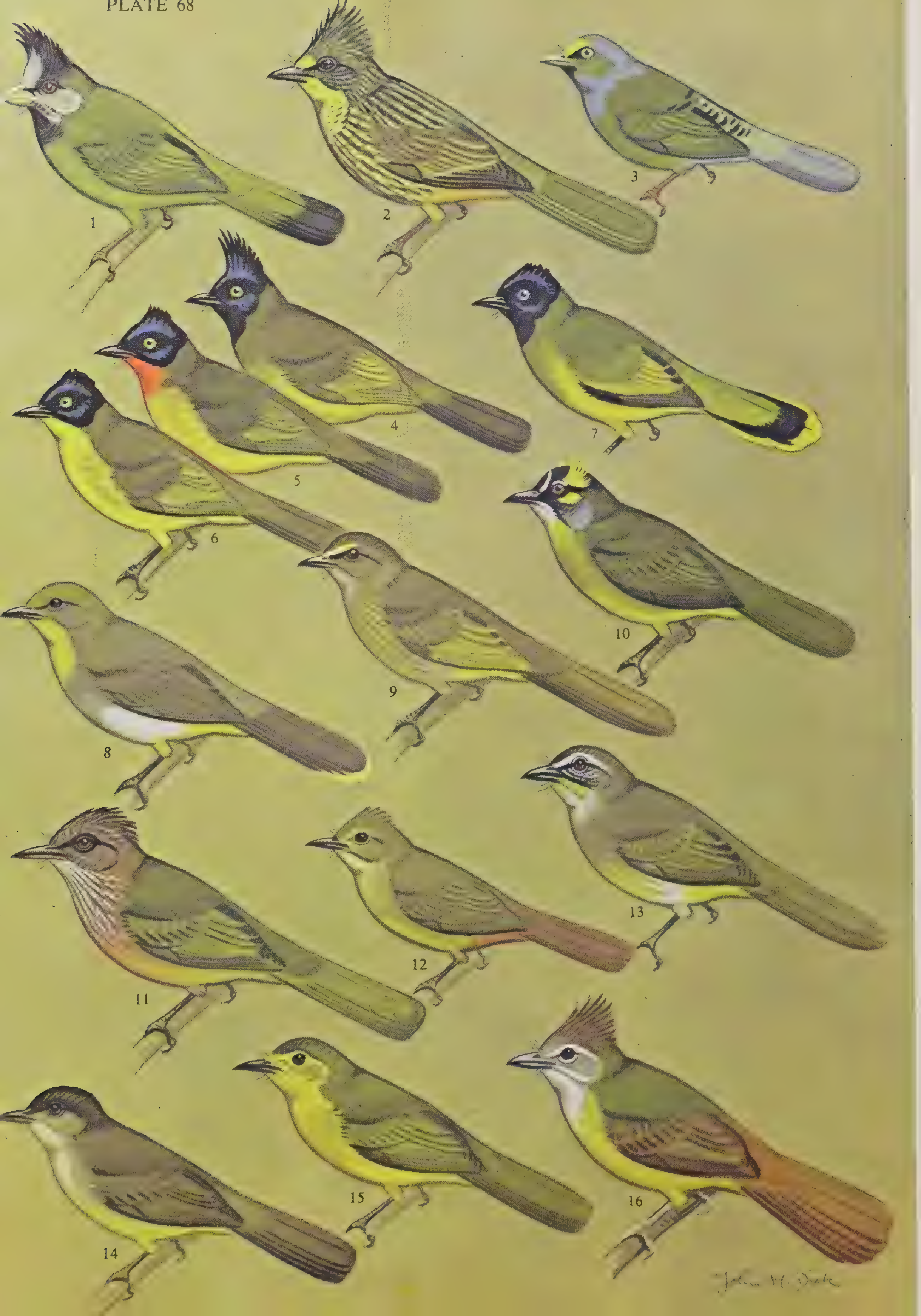
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PLATE 68

1111. **(1)** FINCHBILLED BULBUL *Spizixos canifrons* R Myna – : 20 cm. Deciduous and evergreen forest, scrub and cultivation. NE hill states; Bangladesh (Chittagong hill tracts); seasonally between c. 900 and 2500 m.

1112. **(7)** BLACKHEADED BULBUL *Pycnonotus atriceps* R Bulbul – : 18 cm. Deciduous forest, light jungle, gardens, etc. NE hill states; Bangladesh; up to c. 700 m. Andaman Is.

1114. **(3)** GREYHEADED BULBUL *Pycnonotus priocephalus* R Bulbul – : 19 cm. Dense evergreen jungle. W Ghats complex south of Goa.

1115. **(4)** BLACKHEADED YELLOW BULBUL *Pycnonotus melanicterus flaviventris* R Bulbul – : 18 cm. Moist-deciduous and evergreen forest and scrub. Himalayan foothills from Kumaon to Arunachal Pradesh; NE hill states; Bangladesh (Chittagong); Orissa, NE Andhra, and E Madhya Pradesh; up to c. 1500 m.

1116. **(5)** Rubythroated ssp. of 1115. *Pycnonotus melanicterus gularis* R Bulbul – : 18 cm. Evergreen forest and secondary jungle. SW India from Goa south through Kerala and adjacent parts of Tamil Nadu.

1117. **(6)** Blackcapped ssp. of 1115. *Pycnonotus melanicterus melanicterus* R Bulbul – : 18 cm. Well-wooded areas, open country. Sri Lanka.

1133. **(2)** STRIATED GREEN BULBUL *Pycnonotus striatus* R Myna – : 20 cm. Evergreen jungle, oak and rhododendron forest. E Himalayas; NE hill states; up to c. 2400 m.

1135. **(8)** YELLOWTHROATED BULBUL *Pycnonotus xantholaemus* R Myna – : 20 cm. Sparse thorn scrub jungle interspersed with large trees among broken stony hillocks. The hills of S Andhra Pradesh, E Karnataka and N Tamil Nadu.

1136. **(10)** YELLOWEARED BULBUL *Pycnonotus penicillatus* R (endemic) Myna – : 20 cm. Jungle, wooded ravines and well-wooded gardens. Sri Lanka.

1137. **(9)** BLYTH'S BULBUL *Pycnonotus flavescens* R Myna – : 20 cm. Tree-forest with undergrowth, scrub jungle and secondary growth. NE hill states; Bangladesh (Chittagong region); seasonally between c. 450 and 2100 m.

1138. **(13)** WHITEBROWED BULBUL *Pycnonotus luteolus* R Myna – : 20 cm. Dry open scrub country and gardens. Midnapur (West Bengal); peninsular India south of Madhya Pradesh; Sri Lanka.

1140. **(16)** WHITETHROATED BULBUL *Criniger flaveolus* R Myna ± : 23 cm. Evergreen secondary jungle and shrubby undergrowth in heavy forest. E Himalayas; NE hil states; hills of Bangladesh. Optimum zone 600-1200 m.

1141. **(12)** OLIVE BULBUL *Hypsipetes viridescens* R Myna – : 19 cm. Dense, humid evergreen forest and abandoned cultivation. NE hill states; Bangladesh (Chittagong hill tracts); up to c. 900 m.

1142. **(14)** NICOBAR BULBUL *Hypsipetes nicobariensis* R Myna – : 20 cm. Forests and gardens. Nicobar Is.

1144. **(15)** YELLOWBROWED BULBUL *Hypsipetes indicus* R Myna – : 20 cm. Evergreen jungle, sholas and coffee shade-trees. W Ghats from Poona and Satara districts south; Sri Lanka.

1146. **(11)** RUFOUSBELLIED BULBUL *Hypsipetes mcclellandi* R Myna ± : 23 cm. Well-wooded secondary jungle, oak, rhododendron and open pine forest. Outer Himalayas from Kumaon east to Arunachal Pradesh; NE hill states; Bangladesh (Chittagong region); up to c. 2700 m.

PLATE 69

588. **(11)** DRONGO-CUCKOO *Surniculus lugubris* R Myna ±, with longer, forked tail: 25 cm. Well-wooded country and orchards. Himalayas; NE hill states; Bangladesh; N and peninsular India; Sri Lanka; up to c. 1600 m.

963. **(1)** BLACK DRONGO or KING-CROW *Dicrurus adsimilis* R Bulbul + : 31 cm. Open deciduous forest and cultivation. Subcontinent; Sri Lanka.

965. **(8)** GREY or ASHY DRONGO *Dicrurus leucophaeus* RM Bulbul + : 30 cm. Moist-deciduous, semi-evergreen and pine forest, plantations, etc. *Breeding:* Himalayas, up to c. 3000 m. *Winter:* Well-wooded plains and hills south to Kerala; Sri Lanka.

996a. **(9)** Ssp. *salangensis* of 965. V? Once each from Nagaland and Andaman Is.

967. **(12)** WHITEBELLIED DRONGO *Dicrurus caerulescens* R Bulbul + : 24 cm. Dry – and moist-deciduous and bamboo forest. Subcontinent; Sri Lanka.

970. **(3)** CROWBILLED DRONGO *Dicrurus annectans* R Myna + : 27 cm. Tropical wet evergreen and semi-evergreen, moist-deciduous and sal forest. Himalayas from Kumaon east to Arunachal Pradesh; Assam and NE hill states; up to c. 600 m.

971. **(6)** BRONZED DRONGO *Dicrurus aeneus* R Bulbul + : 24 cm. Tropical evergreen and moist-deciduous forest and scrub. Himalayan foothills from Kumaon east to Arunachal Pradesh; NE hill states; Bangladesh; W Bengal; E and W Ghat complexes; up to c. 2000 m.

972. **(2)** LESSER RACKET-TAILED DRONGO *Dicrurus remifer* R Myna + : 28 cm. Heavy moist-deciduous and evergreen forest. Himalayan foothills from Garhwal east to Arunachal Pradesh; NE hill states south to Chittagong (Bangladesh); up to c. 2000 m.

973. **(7)** HAIRCRESTED, or SPANGLED, DRONGO *Dicrurus hottentottus* R Myna ±, with longer tail: overall 31 cm. Moist-deciduous and evergreen forest. Himalayan foothills from Himachal Pradesh east to Arunachal Pradesh, south through NE hill states to Bangladesh, Bengal, Bihar, Orissa and Madhya Pradesh; W Ghats complex north to Bombay; up to c. 1400 m.

975. **(10)** ANDAMAN DRONGO *Dicrurus andamanensis* R Myna ±, with longer tail: overall 35 cm. Evergreen forest. Andaman Is.

977. **(4)** GREATER RACKET-TAILED DRONGO *Dicrurus paradiseus* R Myna ±, with longer tail: overall 31-35 cm. Deciduous and evergreen forest, bamboo jungle and edges of cultivation. Subcontinent. Absent in Pakistan.

979. **(5)** Sri Lanka ssp. *lophorhinus* of 977 (outer tail feather).

1773. **(13)** WHITEBREASTED DIPPER *Cinclus cinclus* R Myna – : 20 cm. Swift-flowing streams and torrents and glacial lakes. Himalayas, seasonally between c. 2700 and 4700 m.

1775. **(14)** BROWN DIPPER *Cinclus pallasii* R Myna – : 20 cm. Swift-flowing streams and torrents. Himalayas; NE hill states south to the Chittagong hill tracts (Bangladesh); seasonally between c. 1000 and 4200 m.

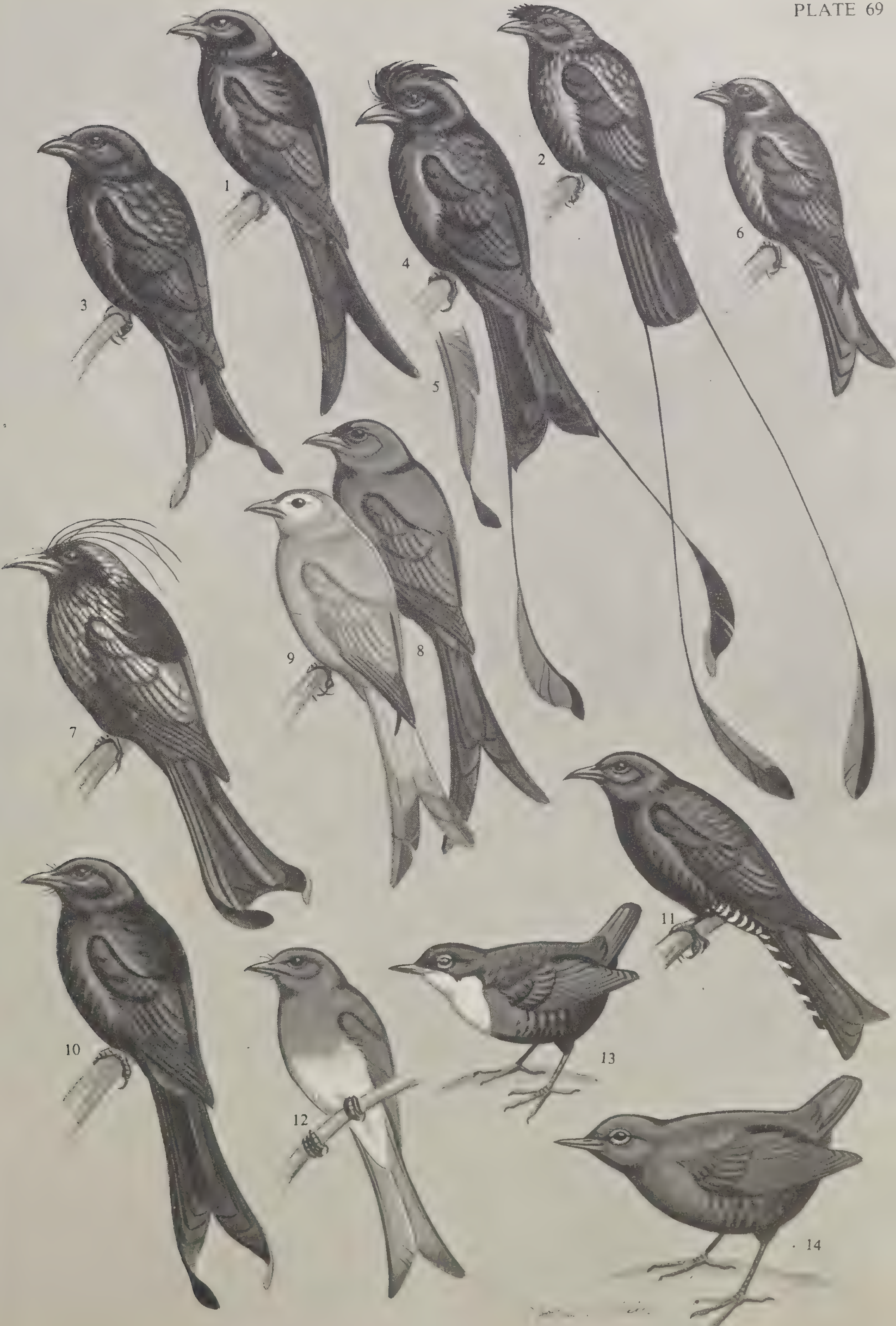
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PLATE 70

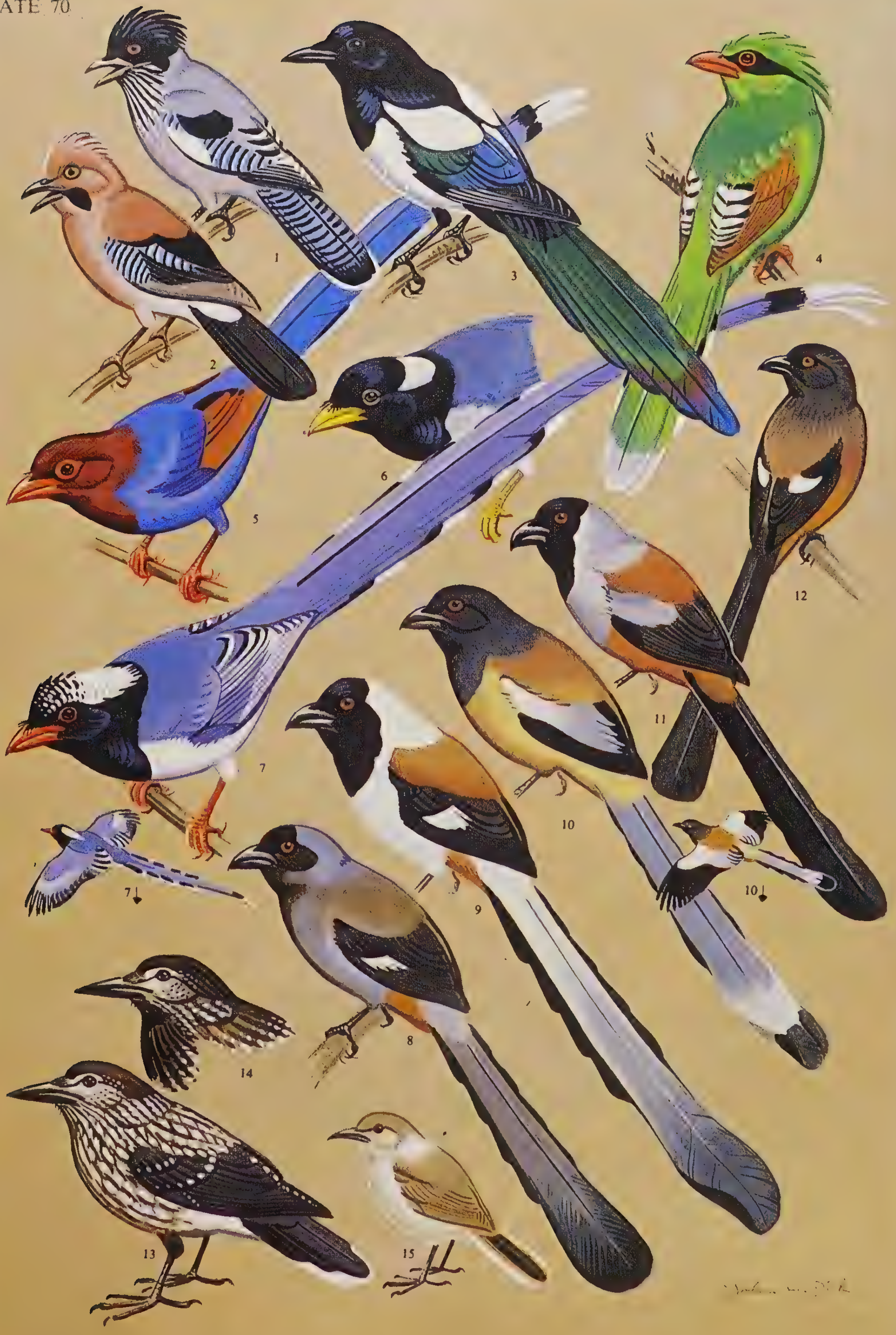
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PLATE 70

1020. **(2)** REDCROWNED JAY *Garrulus glandarius* R Pigeon ±: 33 cm. Wet-temperate mixed forest of oak, pine, etc. Himalayas; NE hill states; seasonally 1000-3600 m.

1022. **(1)** BLACKTHROATED JAY *Garrulus lanceolatus* R Pigeon ±: 33 cm. Deciduous and mixed conifer forest. Himalayas east to Nepal; c. 1000-2500 m.

1023. **(4)** GREEN MAGPIE *Cissa chinensis* R Myna ±, with longer tail: overall 47 cm. Tropical and subtropical evergreen secondary forest and moist-deciduous bamboo jungle. Himalayas; Assam and NE hill states; Bangladesh (Chittagong); up to c. 1200 m.

1024. **(5)** CEYLON MAGPIE *Cissa ornata* R (endemic) Myna +, with long tail: overall 47 cm. Dense evergreen forest. Sri Lanka, between c. 150 and 2100 m.

1025. **(6)** YELLOWBILLED BLUE MAGPIE *Cissa flavirostris* R Pigeon ±, with long tail (39-43 cm): overall 66 cm. Wet-temperate mixed forest of pine, oak, etc. Himalayas, seasonally between c. 1000 and 2700 m.

1027. **(7)** REDBILLED BLUE MAGPIE *Cissa erythrorhyncha* R Pigeon ±, with long tail (c. 40 cm): overall 70 cm. Tropical and subtropical dry – and moist-deciduous forest; also around cultivation and villages. Himalayas from Himachal Pradesh to E Nepal (not recorded farther east); Assam, NE hill states; seasonally between 300 and 1600 m.

1029. **(3)** WHITERUMPED MAGPIE *Pica pica* R Myna ±: overall 52 cm (including 30 cm long tail). Cultivation. Pakistan from Chitral south to Baluchistan and west through Ladakh and N Kashmir to Himachal Pradesh, c. 1500-4500 m. A black-rumped subspecies *(bottanensis)* in Bhutan and Arunachal Pradesh.

1032. **(10)** INDIAN TREE PIE *Dendrocitta vagabunda* R Myna +, with long tail: overall 50 cm. Dry – and moist-deciduous biotope: lightly wooded country, gardens, etc. Subcontinent. Absent in Sri Lanka and Andaman and Nicobar Is.

1035. **(11)** BLACKBROWED TREE PIE *Dendrocitta frontalis* R Myna ±, with long tail: overall 38 cm. Mixed evergreen forest and bamboo jungle. E Himalayas, up to c. 2100 m; NE hill states.

1036. **(9)** WHITEBELLIED TREE PIE *Dendrocitta leucogastra* R Myna +, with long tail: overall 50 cm. Wet evergreen biotope. Southern W Ghats complex through Kerala and Tamil Nadu, east to Bangalore and Andhra Pradesh.

1038. **(8)** HIMALAYAN TREE PIE *Dendrocitta formosae* R Myna ±, with long tail: overall 41-43 cm. Tropical and subtropical moist-deciduous and semi-evergreen forest and well-wooded country. Himalaya, seasonally between c. 600 and 2100 m; NE hill states; Assam and Bengal. An isolated pocket in E Ghats (Vishakhapatnam section).

1040. **(12)** ANDAMAN TREE PIE *Dendrocitta bayleyi* R Myna ±, with long tail: overall 36 cm. Evergreen forest. Andaman Is.

1041. **(15)** HUME'S GROUND CHOUGH *Podoces humilis* R Myna –: 20 cm. Sandy stone-littered hillsides, etc. N Sikkim and N Nepal (Tibetan steppe facies); c. 4200-5200 m.

1042. **(13)** NUTCRACKER *Nucifraga caryocatactes* R Pigeon ±: 32 cm. Subalpine conifer forest, especially pine. From Chitral south and east along Himalayas to Lahul; c. 1500 m up to timber-line.

1043. **(14)** Ssp. *hemispila* of 1042. From Murree east through Kashmir, Nepal, Darjeeling, Sikkim, Bhutan and Arunachal Pradesh.

PLATE 71

590. **(1)** KOEL *Eudynamys scolopacea* R Crow ±: 43 cm. Lightly wooded country and cultivation. Subcontinent.

1045. **(2)** YELLOWBILLED, or ALPINE, CHOUGH *Pyrrhocorax graculus* R Crow –: 38 cm. High altitude crags, rocky slopes, alpine meadows, etc. From Baluchistan to Chitral; Himalayas; seasonally c. 2000-5000 m.

1046. **(4)** REDBILLED CHOUGH *Pyrrhocorax pyrrhocorax* R Crow ±: 45 cm. Dry-and moist-temperate high mountain biotope. From Baluchistan to Chitral; Himalayas; seasonally c 1600-3500 m—a lower altitudinal range than Yellowbilled.

1049. **(6)** HOUSE CROW *Corvus splendens* R Pigeon +: 43 cm. Human habitations: towns and cities. Subcontinent.

1052. **(5)** ROOK *Corvus frugilegus* M Crow +: 48 cm. Cultivated fields. From Chitral and Gilgit south to Baluchistan (Quetta) and east through N Punjab and Haryana.

1053. **(3)** JACKDAW *Corvus monedula* R Pigeon ±: 33 cm. Pastures and cultivated fields. *Summer:* Breeding in Kashmir between c. 1500 and 2100 m. *Winter:* NWFP, Baluchistan, Gilgit, Punjab south to Ferozepore and east to Haryana.

1054. **(7)** JUNGLE CROW *Corvus macrorhynchos* R Crow +: 48-50 cm. Wooded country and outskirts of towns and cities. Subcontinent. Absent in Andaman and Nicobar Is.

1058. **(8)** CARRION CROW *Corvus corone* R Crow +: 47 cm. Willow and poplar groves and cultivation with trees and open forest. Baltistan, Ladakh, Kashmir, Murree (c. 2700-3600 m), Kohat (c. 1500 m to timber-line); Quetta (winter).

1058a. **(9)** Migrant ssp. *sharpii* of 1058. Cultivated country, c. 2500-3500 m. NWFP, Ladakh, Kashmir (winter).

1059. **(11)** RAVEN *Corvus corax* R Kite +: 69 cm. Near towns and villages, desert settlements and semi-desert areas. NWFP, Baluchistan, Sind and desert parts of NW India, and along the higher Himalayas (Tibetan steppe facies) to Arunachal Pradesh.

1061. **(10)** BROWN-NECKED RAVEN *Corvus ruficollis* R Kite ±: 58 cm. Flat desert, semi-desert and arid country. Baluchistan and Sind.

PLATE 71

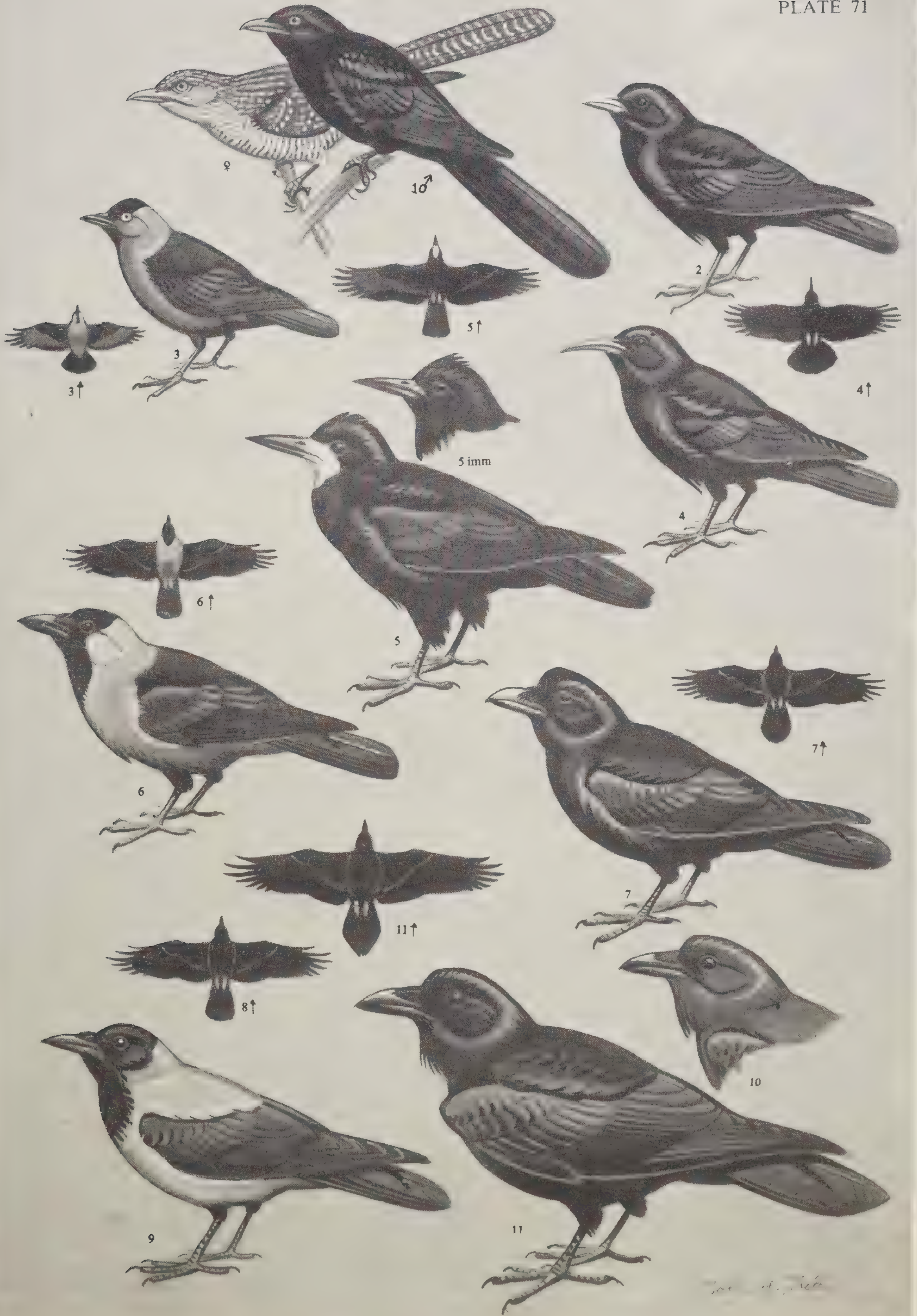
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PLATE 72

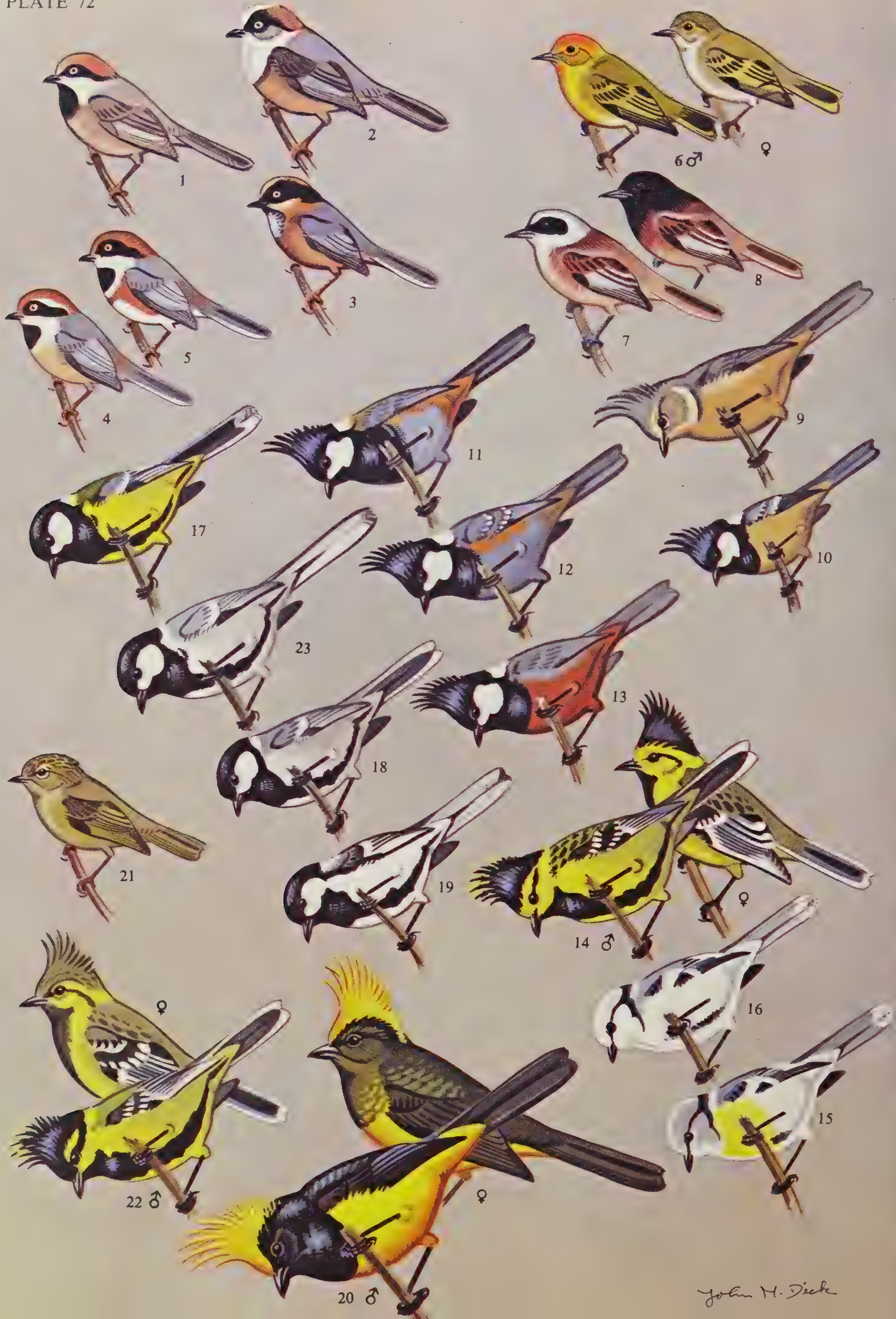
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PLATE 72

1789. **(20)** SULTAN TIT *Melanochlora sultanea* R Bulbul ±: 20 cm. Foothills forest, up to c. 700 m. E Himalayas.

1794. **(18)** GREY TIT *Parus major* R Sparrow –: 13 cm. Lightly wooded country. Subcontinent.

1798. **(19)** WHITEWINGED BLACK TIT *Parus nuchalis* R Sparrow –: 13 cm. Hummocky semi-desert country. Kutch, N Gujarat, Rajasthan.

1799. **(17)** GREENBACKED TIT *Parus monticolus* R Sparrow –: 13 cm. Hill forest. Himalayas, up to c. 3600 m.

1800. **(15)** YELLOWBREASTED BLUE TIT, or AZURE TIT *Parus cyanus flavipectus* V Sparrow –: 13 cm. Willow, juniper and birch scrub in river beds, etc. Chitral.

1800a. **(16)** (TIEN SHAN) YELLOWBREASTED BLUE TIT *Parus cyanus tianschanicus* V Sparrow –: 13 cm. Bushes near water. Hunza.

1802. **(12)** CRESTED BLACK TIT *Parus melanolophus* R Sparrow –: 11 cm. Oak and conifer forest. W Himalayas, seasonally from c. 100 m to timber-line.

1803. **(10)** COAL TIT *Parus ater* R Sparrow –: 10 cm. Subalpine conifer forest. E Himalayas, seasonally c. 1800-3600 m.

1804. **(11)** BLACK TIT *Parus rufonuchalis* R Sparrow ±: 13 cm. Mixed oak and conifer forest. Baluchistan; W Himalayas. Seasonally from c. 1500 m to timber-line.

1805. **(13)** RUFOUSBELLIED CRESTED TIT *Parus rubidiventris* R Sparrow –: 10 cm. Subalpine conifer and rhododendron scrub. E Himalayas, seasonally between c. 2200 and 4200 m.

1808. **(9)** BROWN CRESTED TIT *Parus dichrous* R Sparrow –: 12 cm. Mixed deciduous and conifer forest. Himalayas, from c. 2200 m to timber-line.

1809. **(22)** YELLOWCHEEKED TIT *Parus xanthogenys* R Sparrow ±: 14 cm. Himalayan and peninsular forests. Subcontinent.

1812. **(14)** BLACKSPOTTED YELLOW TIT *Parus spilonotus* R Sparrow ±: 14 cm. Light mixed forest. E Himalayas, seasonally between 1400 and 2400 m.

1814. **(21)** YELLOWBROWED TIT *Sylviparus modestus* R Sparrow –: 9 cm. Mixed deciduous and conifer forest. Himalayas, seasonally between c. 1200 and 4200 m.

1815. **(6)** FIRECAPPED TIT *Cephalopyrus flammiceps* RM Sparrow –: 9 cm. Poplar, willow, oak and mixed forest; orchards. *Summer:* Himalayas, between c. 2000 and 3500 m. *Winter:* N and C India.

1817. **(7)** PENDULINE TIT *Remiz pendulinus* M Sparrow –: 10 cm. Tamarisk-Acacia scrub along rivers and canals. Pakistan and Punjab plains.

EL. **(8)** Blackheaded ssp. *nigricans* of 1817. Afghanistan, Iran.

1818, 1819. **(4)** REDHEADED TIT *Aegithalos cocinnus* R Sparrow –: 10 cm. Light open hill forest. Baluchistan and Himalayas. Seasonally between c. 600 and 3600 m.

1820. **(5)** Ssp. *manipurensis* of 1818. Assam, Meghalaya, Nagaland, Manipur and Mizoram.

1821. **(1)** WHITECHEEKED TIT *Aegithalos leucogenys* R Sparrow –: 10 cm. Ilex and tamarisk scrub along rivers, etc. NWFP, Baluchistan. Seasonally between c. 450 and 3600 m.

1822. **(2)** WHITETHROATED TIT *Aegithalos niveogularis* R Sparrow –: 10 cm. Subalpine mixed deciduous and coniferous forest. W Himalayas, seasonally between c. 1800 and 3600 m.

1823. **(3)** RUFOUSFRONTED TIT *Aegithalos iouschistos* R Sparrow –: 10 cm. Shrubby undergrowth in conifer and mixed forest. E Himalayas, seasonally between c. 2400 and 3600 m.

EL. **(23)** BLUE-GREY TIT *Parus bokharensis* Russian Turkestan and Afghanistan.

PLATE 73

1235. **(15)** BEARDED TIT-BABBLER, or REEDLING *Panurus biarmicus* V Sparrow ±: 15 cm. Dense grass and tamarisk scrub. Pakistan (NWFP).

1238. **(24)** FULVOUSFRONTED SUTHORA or PARROTBILL *Paradoxornis fulvifrons* R Sparrow –: 12 cm. Dense bamboo forest. E Himalayas, between c. 2700 and 3400 m.

1241. **(22)** ORANGE SUTHORA *Paradoxornis nipalensis humii* R Sparrow –: 10 cm. Mixed deciduous and bamboo jungle. E Himalayas, between 1200 and 3300 m.

1242. **(23)** ORANGE SUTHORA *Paradoxornis nipalensis poliotis* R Sparrow –: 10 cm. Bamboo jungle and dense evergreen forest. E Himalayas; NE hill states; c. 1500-2600 m.

1245. **(20)** Ssp. *oatesi* of 1246. Sikkim; Darjeeling; c. 2100 m. Very rare.

1246. **(21)** LESSER REDHEADED SUTHORA or PARROTBILL *Paradoxornis atrosuperciliaris* R Sparrow ±: 15 cm. Bamboo, high grass and scrub jungle. E Himalayas; NE hill states. Seasonally from the foothills to 1500 m.

1247. **(19)** GREATER REDHEADED PARROTBILL *Paradoxornis ruficeps* R Bulbul –: 18 cm. Wet forest, bamboo and scrub jungle, reed-beds, etc. E Himalayas; NE hill states; up to c. 1800 m.

1249. **(16)** GREYHEADED PARROTBILL *Paradoxornis gularis* R Bulbul –: 16 cm. Bamboo, bushes and low trees. E Himalayas; NE hill states; up to c. 2100 m.

1251. **(17)** BLACKTHROATED PARROTBILL *Paradoxornis flavirostris* R Bulbul ±: 19 cm. Elephant grass thickets, bamboo jungle. E Himalayas, up to c. 2400 m.

1252. **(18)** WHITETHROATED PARROTBILL *Paradoxornis guttaticollis* R Bulbul ±: 19 cm. Scrub and grass on abandoned cultivation, bushes and bamboo jungle. Patkai Range; Nagaland; Chittagong hill tracts (Bangladesh); between c. 900 and 2100 m.

1824. **(4)** EUROPEAN NUTHATCH *Sitta europea cashmirensis* R Sparrow –: 12 cm. Conifer, deciduous or mixed forest. N Baluchistan; W Himalayas; up to 3300 m.

1826. **(1)** EUROPEAN NUTHATCH *Sitta europea nagaensis* R Sparrow –: 12 cm. Mixed deciduous and evergreen, and coniferous forest. NE hill states, between 1400 and 2800 m.

1830. **(3)** CHESTNUTBELLIED NUTHATCH *Sitta castanea* R Sparrow –: 12 cm. Deciduous forest and light woods. Lower Himalayas, up to c. 1800 m; practically all Subcontinent.

1832. **(6)** WHITECHEEKED NUTHATCH *Sitta leucopsis* R Sparrow –: 12 cm. Pine, fir, deodar and mixed forest. Himalayas, seasonally from c. 1800 m to timber-line.

1834. **(2)** WHITETAILED NUTHATCH *Sitta himalayensis* R Sparrow –: 12 cm. Deciduous or evergreen broadleafed forest. Himalayas; NE hill states. Seasonally between c. 950 and 3400 m.

1836. **(5)** ROCK NUTHATCH *Sitta tephronota* R Sparrow ±: 15 cm. Rocky valleys with broken cliffs, near streams. Baluchistan, seasonally between 350 and 2500 m.

1837. **(8)** BEAUTIFUL NUTHATCH *Sitta formosa* R Sparrow ±: 15 cm. Deep, wet semi-evergreen and evergreen forest. E Himalayas; NE hill states. Seasonally between c. 330 and 2400 m.

1838. **(7)** VELVETFRONTED NUTHATCH *Sitta frontalis* R Sparrow –: 10 cm. Moist-deciduous and evergreen hilly biotope. Lower Himalayas; practically all Subcontinent excepting NW; Sri Lanka.

1839. **(9)** WALL CREEPER *Tichodroma muraria* R Sparrow +: 17 cm. Gorges and vertical cliffs. High Himalayas, above 3300 m. *Winter:* N Indian plains.

1841. **(14)** SPOTTED GREY CREEPER *Salpornis spilonotos* R Sparrow –: 13 cm. Open deciduous forest and groves. Peninsular India; capricious.

1842. **(10)** TREE CREEPER *Certhia familiaris* R Sparrow –: 12 cm. Pine, deodar, birch and rhododendron forest. Himalayas, seasonally from c. 1700 m up to timber-line.

1847. **(11)** HIMALAYAN TREE CREEPER *Certhia himalayana* R Sparrow –: 12 cm. Forest of pine, fir, deodar, spruce, etc. N Baluchistan; W Himalayas. Seasonally from the plains up to timber-line.

1849. **(13)** SIKKIM TREE CREEPER *Certhia discolor* R Sparrow –: 12 cm. Deciduous and oak and rhododendron forest. E Himalayas; NE hill states. Seasonally between c. 300 and 3600 m.

1851. **(12)** NEPAL TREE CREEPER *Certhia nipalensis* R Sparrow –: 12 cm. Oak and mixed deciduous and conifer forest. E Himalayas, seasonally between 1700 and 3500 m.

PLATE 73

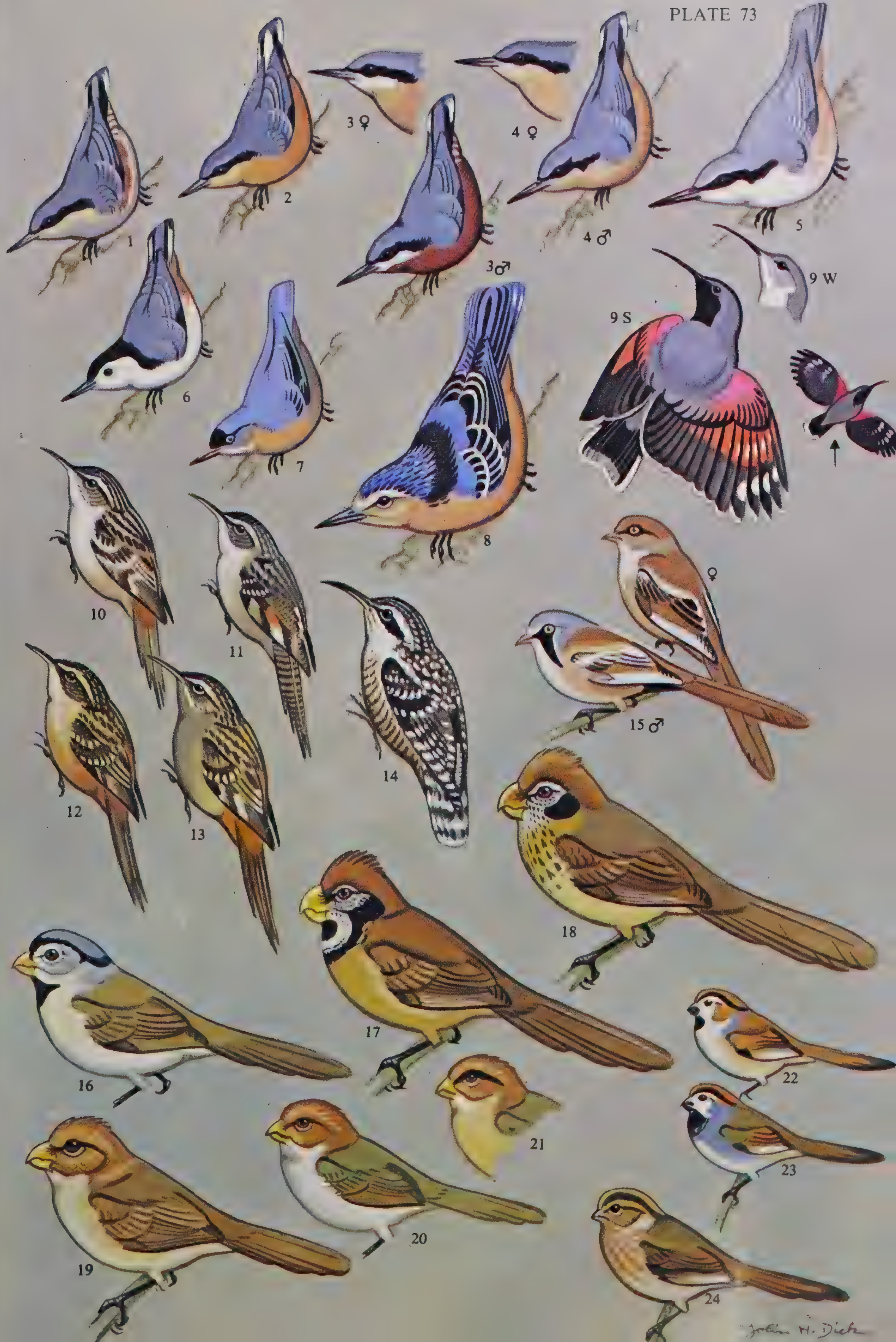
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PLATE 74

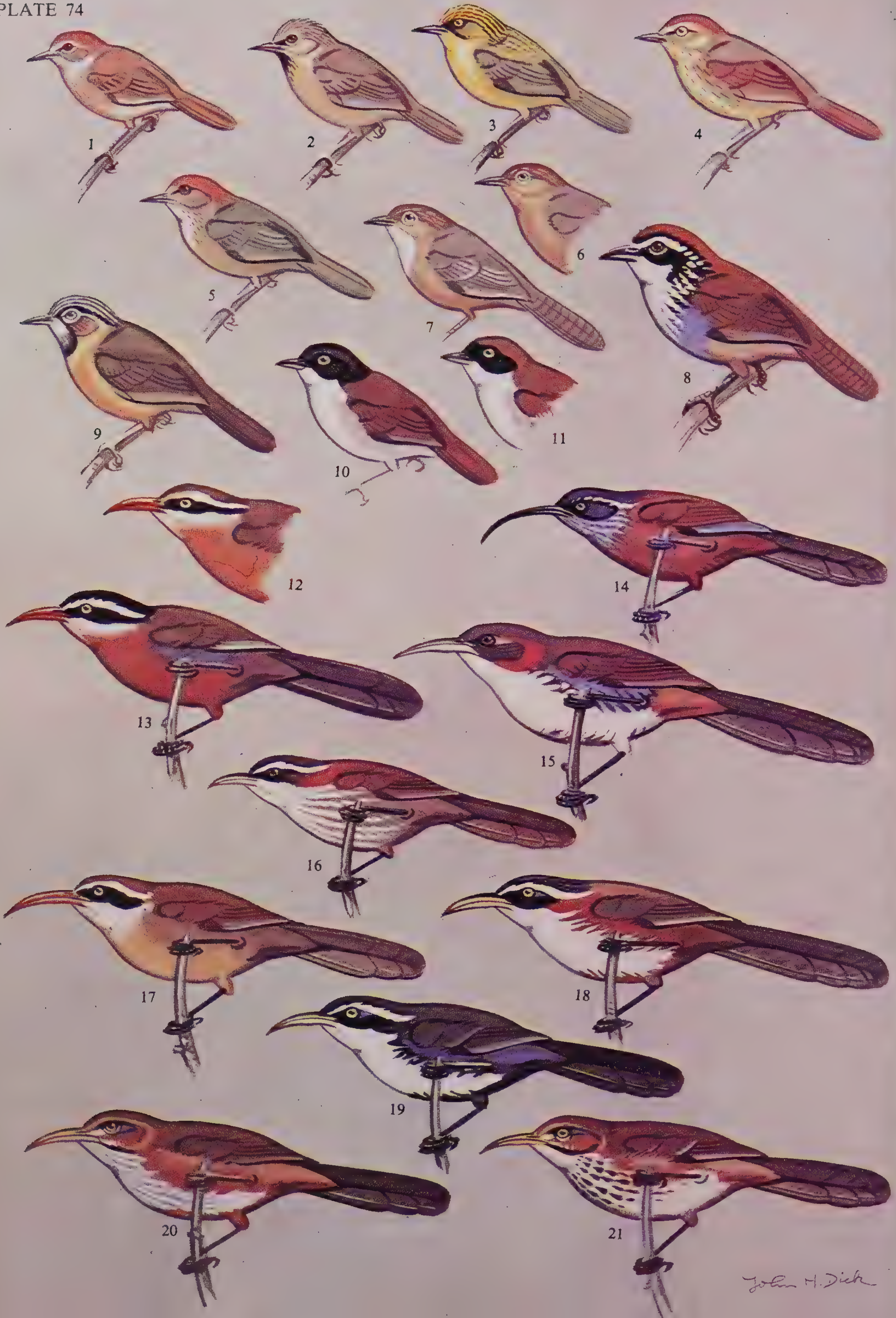
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PLATE 74

1169. **(18)** SLATYHEADED SCIMITAR BABBLER *Pomatorhinus horsfieldi schisticeps* R Myna – : 22 cm. Ssp. of 1173. South India.

1173. **(19)** SLATYHEADED SCIMITAR BABBLER *Pomatorhinus horsfieldi* R Myna – : 22 cm. Evergreen and deciduous forest, thorn scrub and bamboo jungle. Himalayas; NE hill states up to c. 1500 m; practically entire Subcontinent (several other sspp.).

1178. **(16)** RUFOUSNECKED SCIMITAR BABBLER *Pomatorhinus ruficollis* R Bulbul ± : 19 cm. Moist-deciduous forest and scrub jungle. Himalayas from Kumaon east; NE hill states; Bangladesh. Seasonally between c. 800 and 3300 m.

1181. **(20)** RUSTYCHEEKED SCIMITAR BABBLER *Pomatorhinus erythrogenys* R Myna + : 25 cm. Scrubby forest edges, overgrown nullahs, bush-clad hillsides. Himalayas; NE hill states; hills of Bangladesh; up to c. 2200 m.

1185. **(15)** LARGE SCIMITAR BABBLER *Pomatorhinus hypoleucos* R Myna + : 28 cm. Dense bamboo, cane and elephant grass jungle. E Himalayas; NE hill states; up to c. 1200 m.

1186. **(13)** CORALBILLED SCIMITAR BABBLER *Pomatorhinus ferruginosus* R Myna – : 22 cm. Dense shrubbery and ringal bamboo jungle. E Himalayas; NE hill states; between c. 600 and 3800 m.

1187. **(12)** Ssp. *formosus* of 1186. Restricted to NE hill states, between c. 900 and 2400 m.

1189. **(17)** LONGBILLED SCIMITAR BABBLER *Pomatorhinus ochraceiceps* R Bulbul + : 23 cm. Dense evergreen and bamboo jungle. Mishmi Hills (Arunachal Pradesh); NE hill states; up to c. 2400 m.

1191. **(14)** SLENDERBILLED SCIMITAR BABBLER *Xiphirhynchus superciliaris* R Bulbul ± : 20 cm. Bushes on steep grassy hillsides, oak and rhododendron forest and bamboo thickets. E Himalayas; NE hill states; Chittagong hills. Seasonally from the foothills up to c. 3400 m.

1209. **(1)** REDFRONTED BABBLER *Stachyris rufifrons* R Sparrow – : 12 cm. Dense undergrowth, thickly forested ravines, etc. E Himalayan foothills; NE hill states; Bangladesh; E Ghats.

1210. **(5)** REDHEADED BABBLER *Stachyris ruficeps* R Sparrow – : 12 cm. Dense evergreen undergrowth, bamboo and secondary jungle. E Himalayas; NE hill states. Seasonally between c. 600 and 2700 m.

1211. **(2)** REDBILLED BABBLER *Stachyris pyrrhops* R Sparrow – : 10 cm. Light forest, bamboo and scrub jungle. W Himalayas, between c. 750 and 2400 m.

1212. **(3)** GOLDHEADED BABBLER *Stachyris chrysaea* R Sparrow – : 10 cm. Evergreen biotope: dense undergrowth and secondary jungle. E Himalayas (800-2600 m); NE hill states (300-1800 m); Bangladesh (above c. 1200 m).

1214. **(9)** BLACKTHROATED BABBLER *Stachyris nigriceps* R Sparrow – : 12 cm. Evergreen secondary scrub and bamboo jungle. E Himalayas; NE hill states; up to 1800 m.

1218. **(8)** AUSTEN'S SPOTTED BABBLER *Stachyris oglei* R Sparrow – : 13 cm. Dense evergreen scrub in hills and rocky ravines. Arunachal Pradesh (Lohit and Tirap districts), between 800 and 1800 m.

1219. **(7)** Ssp. *abuensis* of 1222. S Rajasthan, Kathiawar peninsula, E Gujarat, W Satpuras and W Ghats south to Poona, east to about Aurangabad; S India south to Krishna river and Mahabaleshwar; Sri Lanka.

1222. **(6)** RUFOUSBELLIED BABBLER *Dumetia hyperythra* R Sparrow – : 13 cm. Deciduous or evergreen biotope: grassland and scrub. Base of Himalayas, Simla to Darjeeling duars, Bengal and Bangladesh, south to Krishna river, west to a line Hyderabad-Jalna-Mhow-Jhansi.

1224. **(10)** BLACKHEADED BABBLER *Rhopocichla atriceps* R Sparrow – : 13 cm. Evergreen biotope: sholas, thickets, cane brakes in dank ravines, etc. Southern W Ghats complex.

1226. **(11)** Sri Lanka ssp. *siccatus* of 1224.

1228. **(4)** YELLOWBREASTED BABBLER *Macronous gularis* R Sparrow – : 11 cm. Evergreen and moist-deciduous biotope: foothills bamboo jungle, long grass and brushwood. E Himalayas; NE hill states; Bangladesh; eastern peninsular India.

EL. **(21)** SPOTBREASTED SCIMITAR BABBLER *Pomatorhinus erythrocnemis* Taiwan.

PLATE 75

1154. **(20)** SPOTTED BABBLER *Pellorneum ruficeps* R Bulbul – : 15 cm. Evergreen or deciduous foothills forest, scrub and secondary growth. Himalayas; NE hill states; most of Subcontinent.

1160. **(19)** MARSH SPOTTED BABBLER *Pellorneum palustre* R Sparrow ± : 15 cm. Marshy tree-jungle with bushes and high grass. Arunachal Pradesh; NE hill states; Bangladesh; up to c. 800 m.

1161. **(16)** BROWNCAPPED BABBLER *Pellorneum fuscocapillum* R Bulbul – : 16 cm. Dense forest, scrub and undergrowth. Sri Lanka.

1164. **(15)** BROWN BABBLER *Pellorneum albiventre* R Sparrow ± : 15 cm. Evergreen or moist-deciduous foothills scrub and bamboo jungle. E Himalayas; NE hill states; Bangladesh; up to c. 1500 m.

1166. **(17)** TICKELL'S BABBLER *Trichastoma tickelli* R Sparrow ± : 15 cm. Deciduous or evergreen biotope: bamboo thickets and heavy scrub. Arunachal Pradesh; NE hill states; Bangladesh; up to c. 2100 m.

1167. **(18)** ABBOTT'S BABBLER *Trichastoma abbotti* R Bulbul – : 15 cm. Evergreen and deciduous biotope: tangled thickets in wet deep foothills jungle. E Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 600 m.

1193. **(9)** LONGBILLED WREN-BABBLER *Rimator malacoptilus* R Sparrow – : 12 cm. Forest undergrowth and dense scrub in steep, broken country. E Himalayas; NE hill states; between 900 and 2700 m.

1194. **(12)** STREAKED, or SHORT-TAILED, WREN-BABBLER *Napothera brevicaudata* R Sparrow – : 12 cm. Damp and shady hill forest with ravines and steep slopes. E Arunachal Pradesh; NE hill states(?); between c. 700 and 2100 m.

1195. **(11)** SMALL WREN-BABBLER *Napothera epilepidota* R Sparrow – : 10 cm. Dense dark forest. E Himalayas; NE hill states; up to c. 1800 m.

1198. **(5)** SCALYBREASTED WREN-BABBLER *Pnoepyga albiventer* R Sparrow – : 10 cm. Dense undergrowth in wet-evergreen forest. Himalayas from Dula Dhar east; NE hill states. Seasonally between c. 600 and 3900 m.

1199. **(3)** BROWN, or LESSER SCALYBREASTED, WREN-BABBLER *Pnoepyga pusilla* R Sparrow – : 9 cm. Wet-evergreen forest with mossy boulders, etc. E Himalayas; NE hill states; Bangladesh (Chittagong region); up to 3000 m.

1200. **(4)** TAILED WREN-BABBLER *Spelaeornis caudatus* R Sparrow – : 9 cm. Damp undergrowth in thick evergreen forest. E Himalayas; NE hill states.

1201. **(8)** MISHMI WREN *Spelaeornis badeigularis* R Sparrow – : 9 cm. Subtropical wet forest. Arunachal Pradesh (Lohit and Tirap districts).

1202. **(13)** LONGTAILED WREN-BABBLER *Spelaeornis longicaudatus* R Sparrow – : 11 cm. Undergrowth in deep evergreen mossy forest. E Himalayas; NE hill states; between c. 1000 and 2000 m.

1203. **(7)** STREAKED LONGTAILED WREN-BABBLER *Spelaeornis chocolatinus* R Sparrow – : 10 cm. Deep evergreen forest with undergrowth of bracken and ferns, etc. NE hill states, seasonally between c. 1200 and 2400 m.

1205. **(10)** LONGTAILED SPOTTED WREN-BABBLER *Spelaeornis troglodytoides* R Sparrow – : 10 cm. Undergrowth and bamboo in wet temperate forest. E Bhutan.

1206. **(6)** SPOTTED WREN-BABBLER *Spelaeornis formosus* R Sparrow – : 10 cm. Dank mossy rhododendron forest with thick fern ground-cover. E Himalayas; NE hill states. Seasonally between c. 1200 and 2300 m.

1207. **(14)** WEDGEBILLED WREN *Sphenocichla humei* R Bulbul – : 17-18 cm. Evergreen forest and dense jungle with large trees and bamboo. E Himalayas; NE hill states. Seasonally between c. 900 and 2300 m.

1770. **(1)** WREN *Troglodytes troglodytes* R Sparrow – : 9 cm. Juniper scrub, rocks and boulders in birch, oak or rhododendron forest, etc. N Baluchistan; W Himalayas east to Garhwal. Seasonally between c. 1200 and 5000 m.

1771. **(2)** Ssp. *nipalensis* of 1770. From Tehri Garhwal east to Bhutan and Arunachal Pradesh.

PLATE 75

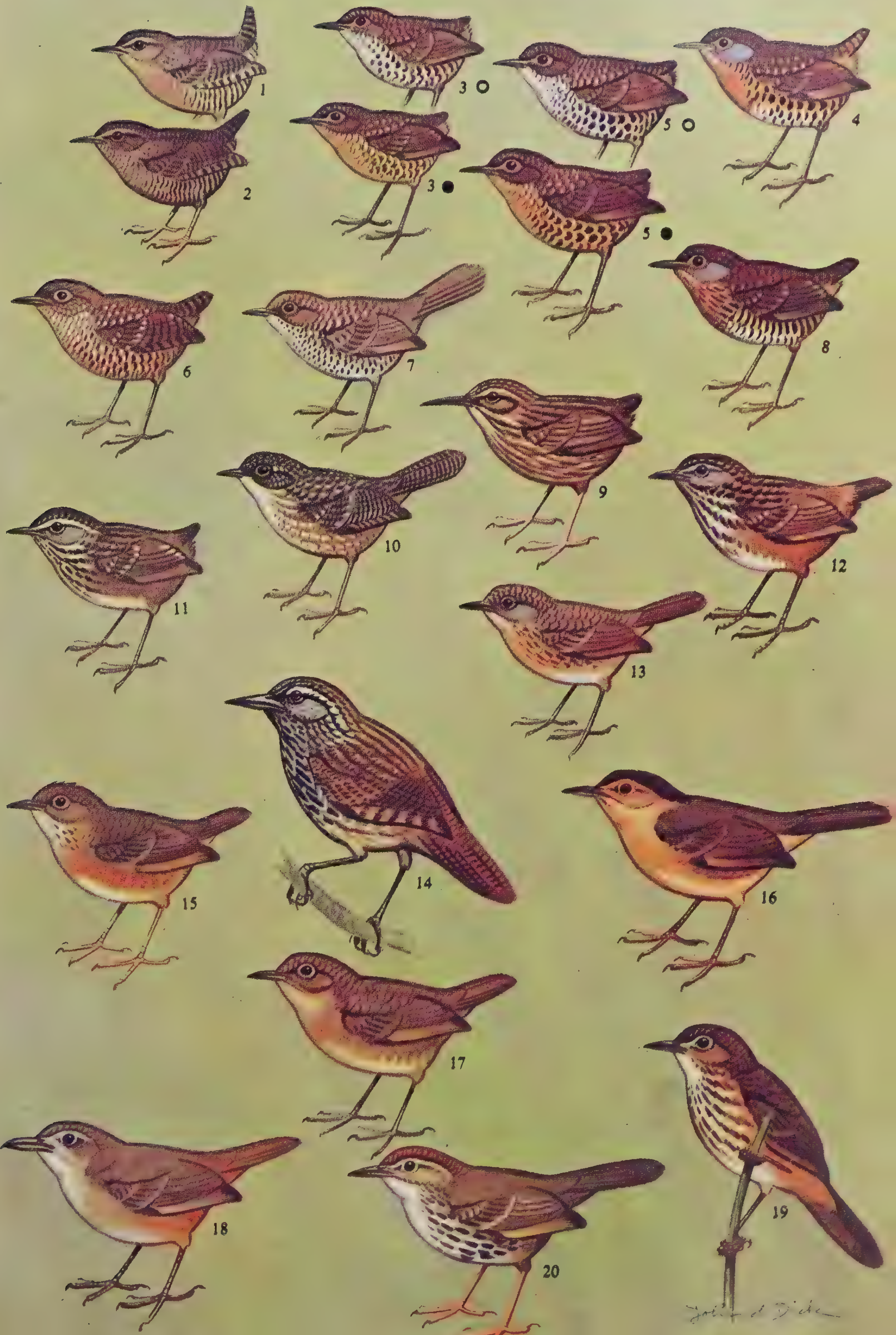
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PLATE 76

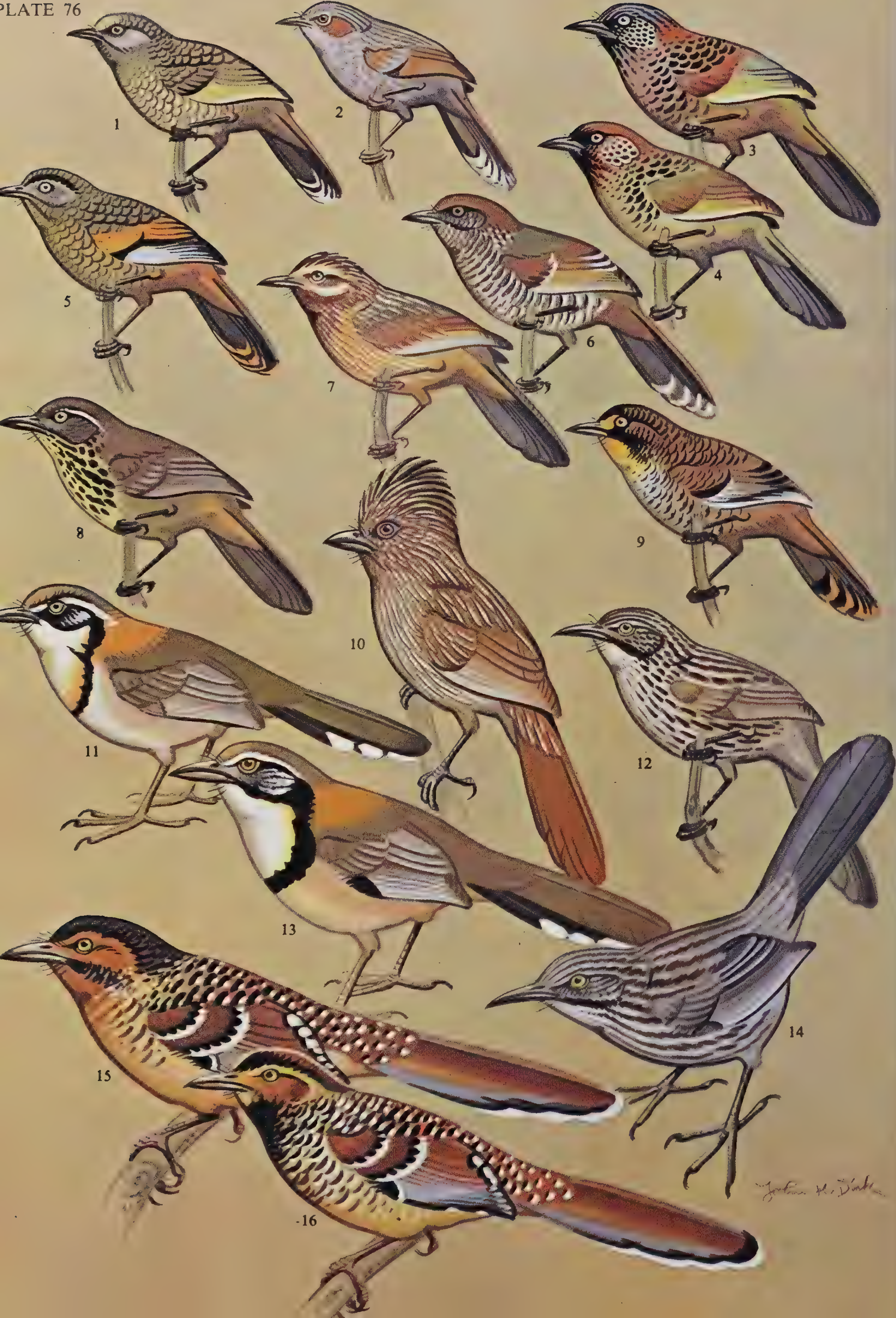
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PLATE 76

1270. **(12)** CHINESE BABAX *Babax lanceolatus* R Myna+: 28 cm. Thin scattered forest and open bracken-covered hillsides. Mizoram, above c. 1500 m.

1271. **(14)** GIANT TIBETAN BABAX *Babax waddelli* R Pigeon ±: 31 cm. Arid scrub. Tibetan facies of extreme NE Sikkim, between c. 2800 and 4500 m.

1275. **(11)** NECKLACED LAUGHING THRUSH *Garrulax moniligerus* R Myna+: 27 cm. Tropical evergreen and moist-deciduous forest and secondary jungle. E Himalayas; NE hill states; Bangladesh (Chittagong); up to c. 1000 m.

1277. **(13)** BLACKGORGETED LAUGHING THRUSH *Garrulax pectoralis* R Myna+: 29 cm. Sal and pine forest, secondary growth and bamboo jungle. E Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 1650 m.

1279. **(10)** STRIATED LAUGHING THRUSH *Garrulax striatus* R Myna+: 28 cm. Dense forest with heavy undergrowth; also secondary and scrub jungle. Himalayas from Kulu east; NE hill states. Seasonally between c. 1000 and 2700 m.

1294. **(9)** RUFOUSCHINNED LAUGHING THRUSH *Garrulax rufogularis* R Myna ±: 22 cm. Oak and rhododendron forest, scrub jungle and secondary growth in subtropical and wet-temperate biotope. Himalayan foothills from Murree east; NE hill states; between c. 600 and 1900 m.

1297. **(15)** GIANT LAUGHING THRUSH *Garrulax ocellatus maximus* R Pigeon+: 35 cm. Subalpine forest. SE Tibet, between 2200 and 2900 m.

1299. **(16)** WHITESPOTTED LAUGHING THRUSH *Garrulax ocellatus* R Pigeon ±: 32 cm. Light forest with undergrowth, thick rhododendron scrub. Himalayas from Garhwal east, between c. 2100 and 4530 m.

1304. **(8)** SPOTTEDBREASTED LAUGHING THRUSH *Garrulax merulinus* R Myna ±: 22 cm. Deep damp forest with heavy undergrowth. NE hill states, between c. 900 and 2400 m.

1314. **(2)** STREAKED LAUGHING THRUSH *Garrulax lineatus* R Bulbul ±: 20 cm. Juniper scrub, bushes in open conifer forest and bush-covered slopes. N Baluchistan; Himalayas up to c. 3900 m.

1317. **(7)** MANIPUR STREAKED LAUGHING THRUSH *Garrulax virgatus* R Myna+: 25 cm. Damp evergreen forest with heavy undergrowth. NE hill states, between c. 900 and 2400 m.

1318. **(6)** BROWNCAPPED LAUGHING THRUSH *Garrulax austeni* R Myna ±: 22 cm. Oak and rhododendron forest, bushes in ravines and clearings, and bamboo thickets. NE hill states, between c. 1200 and 2700 m.

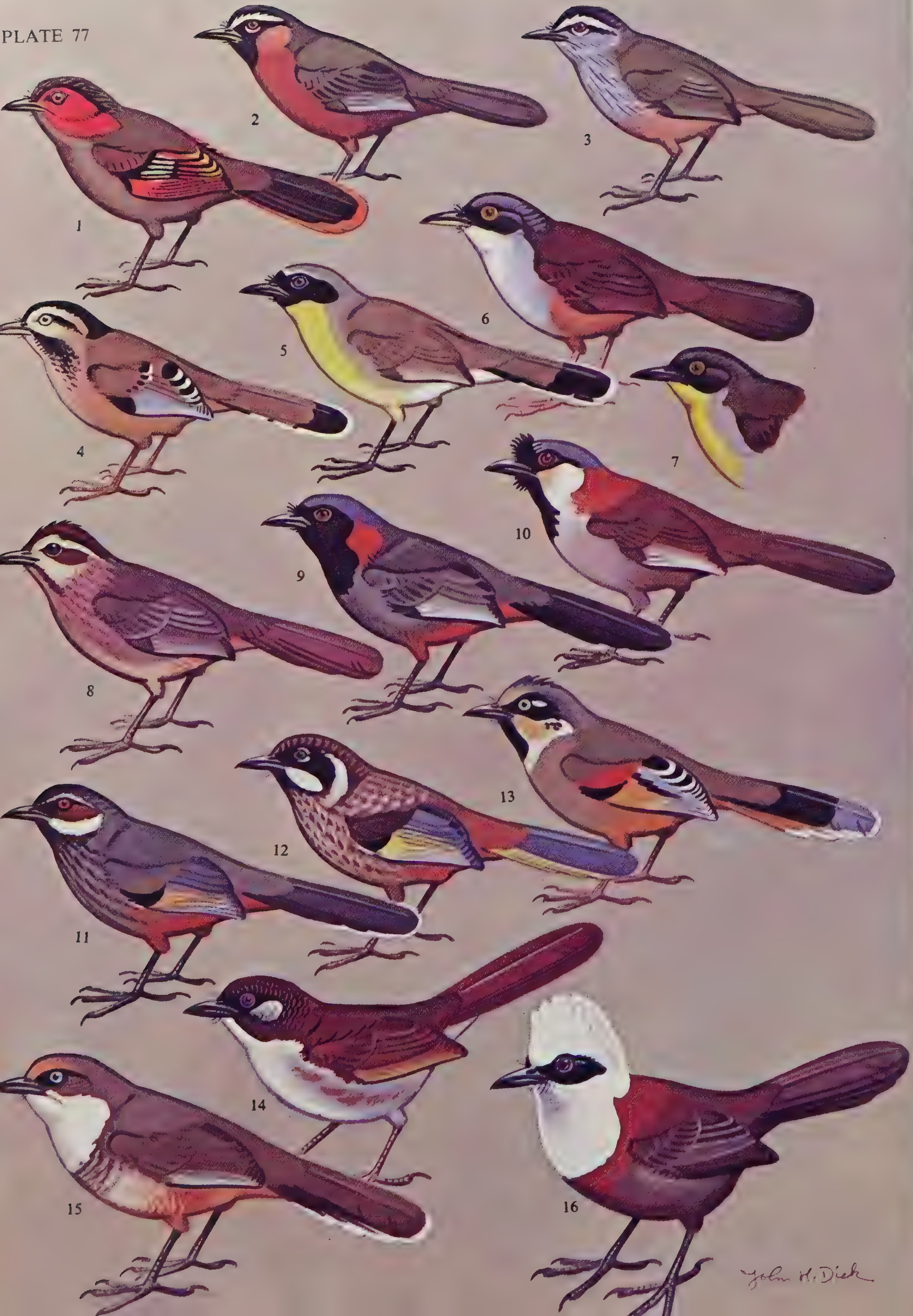
1319. **(5)** BLUEWINGED LAUGHING THRUSH *Garrulax squamatus* R Myna+: 25 cm. Humid dense hill bamboo thickets and rhododendron bushes along streams, etc. E Himalayas; NE hill states; between c. 800 and 3600 m.

1320. **(1)** PLAINCOLOURED LAUGHING THRUSH *Garrulax subunicolor* R Myna ±: 23 cm. Thickets of *Rubus,* dwarf rhododendron, bamboo, and undergrowth in mixed deciduous forest. E Himalayas, seasonally between c. 800 and 3600 m.

1324. **(4)** REDHEADED LAUGHING THRUSH *Garrulax erythrocephalus* R Myna+: 28 cm. Damp forest with dense undergrowth, along nullahs, etc. Himalayas from Changla Gali and Murree east; NE hill states. Seasonally between c. 1200 and 3300 m.

1326. **(3)** Ssp. *nigrimentum* of 1324. E Himalayas, seasonally between c. 2000 and 3500 m.

PLATE 77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PLATEE 77

1274. **(15)** WHITETHROATED LAUGHING THRUSH *Garrulax albogularis* R Myna+: 28 cm. Dense forest, light jungle and open scrubby hillsides. Himalayas; NE hill states. Seasonally between c. 900 and 3300 m.

1283. **(16)** WHITECRESTED LAUGHING THRUSH *Garrulax leucolophus* R Myna+: 28 cm. Wet evergreen forest with dense secondary scrub and bamboo jungle. Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 2100 m.

1285. **(10)** CHESTNUTBACKED LAUGHING THRUSH *Garrulax nuchalis* R Myna±: 23 cm. Dense wet evergreen scrub jungle on broken ground. Mishmi Hills; NE hill states; up to c. 900 m.

1286. **(5)** YELLOWTHROATED LAUGHING THRUSH *Garrulax galbanus* R Myna±: 23 cm. Wet evergreen biotope: Open jungle and tall grass intermixed with trees and shrubs. S Assam; NE hill states; Bangladesh (Chittagong hill tracts); between c. 800 and 1800 m.

1287. **(6)** YELLOWBREASTED LAUGHING THRUSH *Garrulax delesserti* R Myna±: 23 cm. Dense evergreen undergrowth. Southern W Ghats complex up to c. 1500 m.

1288. **(7)** Ssp. *gularis* of 1287. Foothills of E Bhutan and Arunachal Pradesh; NE hill states; Bangladesh; up to c. 1800 m.

1290. **(13)** VARIEGATED LAUGHING THRUSH *Garrulax variegatus* R Myna±: 24 cm. Open forest of fir and birch with rhododendron and bamboo growth and miscellaneous dense jungle. W Himalayas, seasonally between c. 1000 and 3300 m.

1291. **(4)** ASHY LAUGHING THRUSH *Garrulax cineraceus* R Myna±: 22 cm. Wet evergreen scrub and secondary growth in forest. Assam, Nagaland and Manipur; up to c. 2400 m.

1300. **(14)** GREYSIDED LAUGHING THRUSH *Garrulax caerulatus* R Myna+: 25 cm. Undergrowth in forest, ringal bamboo and scrub-covered hillsides. E Himalayas; NE hill states. Seasonally between c. 600 and 2700 m.

1303. **(9)** RUFOUSNECKED LAUGHING THRUSH *Garrulax ruficollis* R Myna±: 23 cm. Scrub and grass, bamboo jungle, secondary growth, etc. E Himalayas; NE hill states; Bangladesh (Chittagong hill tracts); up to c. 1500 m.

1306. **(8)** WHITEBROWED LAUGHING THRUSH *Garrulax sannio* R Myna±: 23 cm. Dense forest, scrub pastures, bamboo or secondary growth; also open hillsides under bracken and scrub. Assam, Nagaland and Manipur; between 1000 and 1800 m.

1307. **(2)** NILGIRI LAUGHING THRUSH *Garrulax cachinnans* R Myna–: 20 cm. Dense undergrowth in sholas, hill station gardens, etc. Nilgiri Hills (S India), above c. 1200 m.

1309. **(3)** WHITEBREASTED LAUGHING THRUSH *Garrulax jerdoni* R Myna–: 20 cm. Evergreen biotope: thickets, scrub, secondary jungle, edges of sholas, hill station gardens, etc. Southern W Ghats complex, above c. 1200 m.

1321. **(11)** PRINCE HENRI'S LAUGHING THRUSH *Garrulax henrici* R Myna+: 25 cm. Scrub in the dry as well as wet zones. Adjacent SE Tibet, seasonally between c. 2000 and 4500 m.

1322. **(12)** BLACKFACED LAUGHING THRUSH *Garrulax affinis* R Myna+: 25 cm. Rhododendron bushes, scrub oak and bamboo in mixed oak and conifer forest, and dwarf rhododendron. E Himalayas, seasonally between 1500 and 4500 m.

1331. **(1)** CRIMSONWINGED LAUGHING THRUSH *Garrulax phoeniceus* R Myna±: 23 cm. Undergrowth in evergreen or shady deciduous forest, and dense secondary growth along streams. E Himalayas; NE hill states; Bangladesh; c. 900-2400 m.

PLATE 78

1347. **(1)** WHITEHEADED SHRIKE-BABBLER *Gampsorhynchus rufulus* R Bulbul +: 23 cm. Evergreen biotope: secondary growth, bamboo, bush-and-grass jungle, and undergrowth in forest. E Himalayas; NE hill states; Bangladesh; up to c. 1200 m.

1348. **(4)** SPECTACLED BARWING *Actinodura egertoni* R Bulbul +: 23 cm. Dense secondary growth and mixed trees-and-scrub in evergreen forest. E Himalayas; NE hill states; up to c. 2400 m.

1352. **(2)** HOARY BARWING *Actinodura nipalensis* R Bulbul ±: 20 cm. Mixed oak, conifer and rhododendron forest with undergrowth. E Himalayas, between 1800 and 3300 m.

1355. **(5)** AUSTEN'S BARWING *Actinodura waldeni* R Bulbul ±: 20 cm. Mossy evergreen and mixed forest. Arunachal Pradesh, Assam and NE hill states. Seasonally between 1500 and 3300 m.

1365. **(13)** WHITEBROWED YUHINA *Yuhina castaniceps* R Sparrow –: 13 cm. Scrub and undergrowth in evergreen or light deciduous forest. E Himalayas; NE hill states; Bangladesh (Chittagong); up to c. 1500 m.

1366. **(19)** WHITENAPED YUHINA *Yuhina bakeri* R Sparrow –: 13 cm. Secondary jungle and evergreen forest. E Himalayas; NE hill states; Bangladesh; up to c. 2000 m.

1368. **(15)** YELLOWNAPED YUHINA *Yuhina flavicollis* R Sparrow –: 13 cm. Oak and deciduous forest and open secondary jungle. Himalayas; NE hill states; Bangladesh (Chittagong hill tracts); up to c. 3000 m.

1372. **(18)** STRIPETHROATED YUHINA *Yuhina gularis* R Sparrow ±: 14 cm. Forest of oak, rhododendron or mixed with conifers. Himalayas from Garhwal east; NE hill states. Seasonally between c. 1800 and 3600 m.

1373. **(17)** RUFOUSVENTED YUHINA *Yuhina occipitalis* R Sparrow –: 13 cm. Evergreen forest, especially rhododendron and oak. E Himalayas, seasonally between 1500 and 3900 m.

1374. **(16)** BLACKCHINNED YUHINA *Yuhina nigrimenta* R Sparrow –: 11 cm. Evergreen forest and secondary jungle. Himalayan foothills from Garhwal east; NE hill states; Bangladesh (Chittagong region); up to c. 1800 m.

1375. **(12)** WHITEBELLIED YUHINA *Yuhina xantholeuca* R Sparrow –: 11 cm. Evergreen or moist-deciduous biotope: glades or along streams, etc. Himalayas; NE hill states; Bangladesh (Chittagong hill tracts); up to c. 2600 m.

1378. **(7)** DUSKY-GREEN, or YELLOWTHROATED, TIT-BABBLER *Alcippe cinerea* R Sparrow –: 10 cm. Glades, etc. in deep evergreen forest; also bamboo clumps and cut-over scrub. E Himalayas; NE hill states; Bangladesh (Chittagong hill tracts); between c. 1000 and 2100 m.

1379. **(6)** CHESTNUT-HEADED TIT-BABBLER *Alcippe castaneceps* R Sparrow –: 10 cm. Heavy evergreen undergrowth at the edge of forest and on abandoned clearings. E Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 3000 m.

1381. **(14)** WHITEBROWED TIT-BABBLER *Alcippe vinipectus* R Sparrow –: 11 cm. Low scrub, light conifer forest, and forest edges with ample undergrowth and ringal bamboo. Himalayas; NE hill states. Seasonally between c. 1500 and 3300 m.

1385. **(10)** BROWNHEADED TIT-BABBLER *Alcippe cinereiceps* R Sparrow –: 11 cm. Secondary scrub jungle, rhododendron and dense bamboo forest. E Bhutan, Arunachal Pradesh, Assam, Nagaland and Manipur. Seasonally between c. 1500 and 3500 m.

1386. **(8)** REDTHROATED TIT-BABBLER *Alcippe rufogularis* R Sparrow –: 12 cm. Evergreen biotope: bamboo jungle, secondary growth in forest. E Himalayan foothills and duars; NE hill states; Bangladesh (Chittagong hill tracts); up to c. 900 m.

1388. **(3)** RUFOUSHEADED TIT-BABBLER *Alcippe brunnea* R Sparrow –: 13 cm. Dense bushes, bracken, bamboo jungle and secondary growth. Arunachal Pradesh, Assam, and NE hill states; between c. 900 and 2400 m.

1390. **(11)** QUAKER BABBLER *Alcippe poioicephala* R Sparrow ±: 15 cm. Evergreen and moist-deciduous biotope: forest, bamboo jungle, open scrub, canebrakes, etc. Subcontinent, hills and plains.

1392. **(9)** NEPAL BABBLER *Alcippe nipalensis* R Sparrow –: 12 cm. Tropical wet evergreen biotope: forest, cut-over scrub, bamboo clumps, etc. E Himalayas; NE hill states; Bangladesh (Chittagong hill tracts); up to c. 1500 m.

PLATE 78

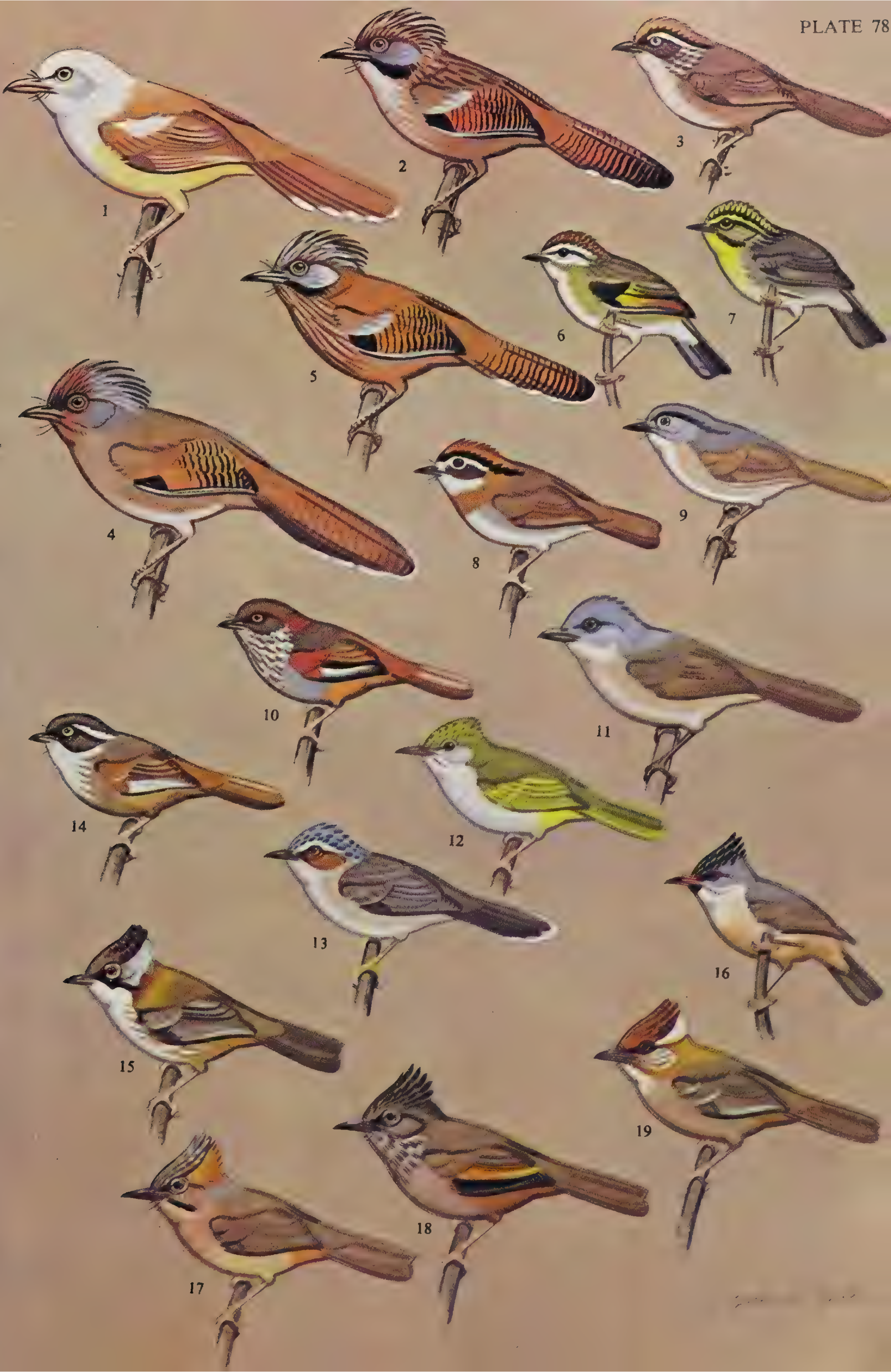
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PLATE 79

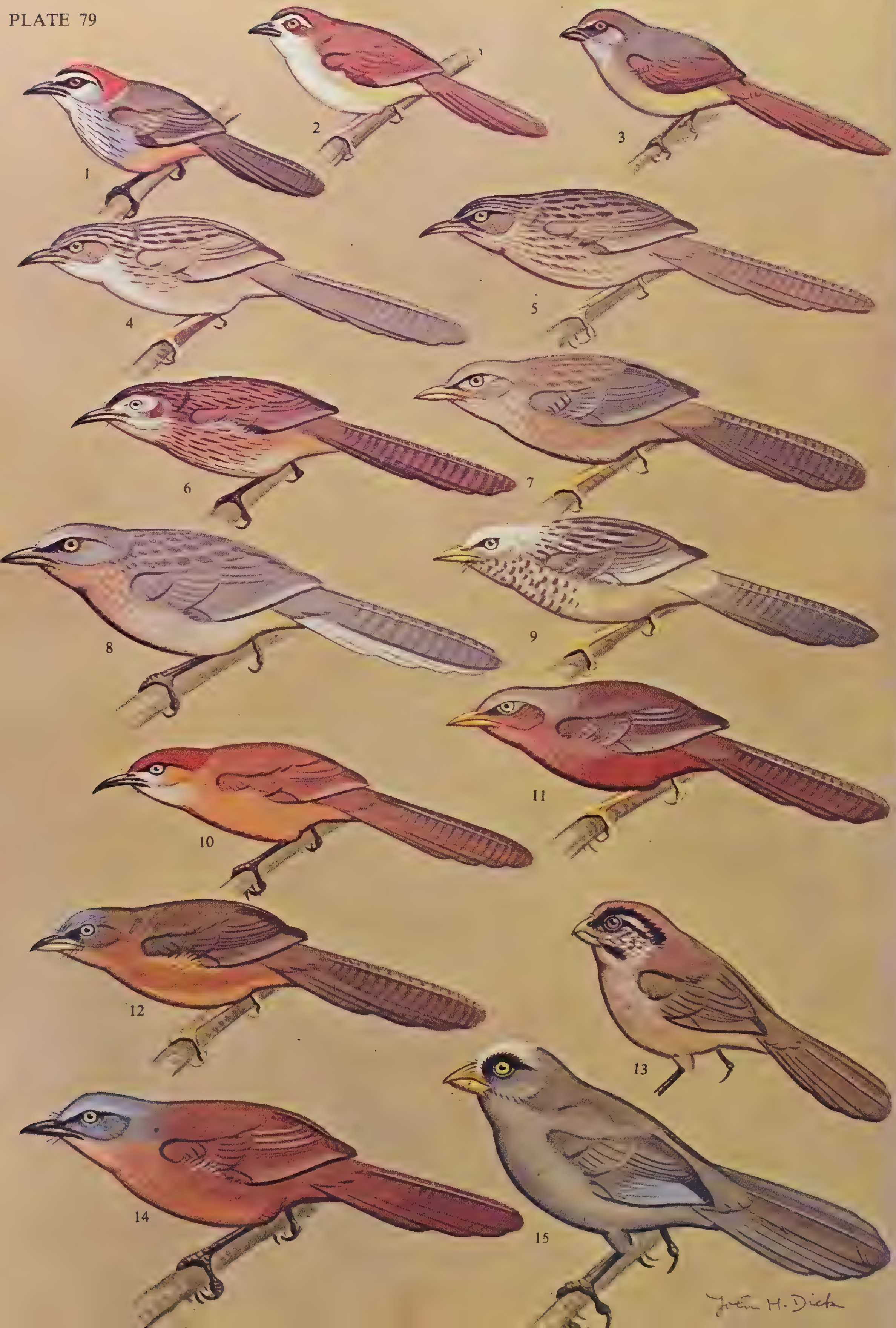
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PLATE 79

1299. **(1)** REDCAPPED BABBLER *Timalia pileata* R Sparrow+: 17 cm. Wet-evergreen biotope: flood plains with tall grass, reed-beds, brushwood and scrub jungle. E Himalayan terai, duars, etc.; NE hill states; Bangladesh.

1231. **(2)** YELLOWEYED BABBLER *Chrysomma sinense* R Bulbul –: 18 cm. Scrub, thorn jungle, reed-beds, bamboo, etc. in dry-deciduous facies. Practically throughout the Subcontinent.

1233. **(3)** JERDON'S BABBLER *Chrysomma altirostre* R Bulbul –: 17 cm. Reed and elephant-grass jungle along rivers. Flood plains of the Indus in Pakistan; Bengal and Bhutan duars; plains of the Brahmaputra system in NE India; Bangladesh.

1236. **(15)** GREAT PARROTBILL *Conostoma aemodium* R Myna+: 28 cm. Ringal bamboo and rhododendron bushes. E Himalayas, between c. 2700 and 3600 m.

1237. **(13)** BROWN SUTHORA or PARROTBILL *Paradoxornis unicolor* R Bulbul ±: 21 cm. Exclusively in *maling* bamboo and dwarf rhododendron growth. E Himalayas, seasonally between c. 2000 and 3400 m.

1254. **(4)** COMMON BABBLER *Turdoides caudatus* R Bulbul+: 23 cm. Thorn scrub jungle, rambling compounds, etc. in semi-desert and dry plains. Most of the Subcontinent. Absent in Sri Lanka.

1256. **(5)** STRIATED BABBLER *Turdoides earlei* R Bulbul ±: 20 cm. Tall grass, reeds and bushes. Flood plains of the Indus, Ganges, Brahmaputra and other N Indian river systems.

1257. **(10)** SLENDERBILLED BABBLER *Turdoides longirostris* R Bulbul+: 23 cm. Long grass, usually near water: locally in terai, duars and lowlands. NE India; Bangladesh.

1258. **(8)** LARGE GREY BABBLER *Turdoides malcolmi* R Myna+: 28 cm. Dry, open, sparsely scrubbed country, thorn jungle, and around cultivation in such. Continental and peninsular India.

1259. **(12)** RUFOUS BABBLER *Turdoides subrufus* R Myna+: 25 cm. Wet-evergreen and moist-deciduous biotope: dense scrub intermixed with tall grass, and bamboo brakes, etc. W Ghats complex from Mahabaleshwar south.

1265. **(7)** JUNGLE BABBLER *Turdoides striatus* R Myna+: 25 cm. Deciduous forest, bamboo, cultivation and scrub jungle, etc. Subcontinent. Absent in Sri Lanka and Andaman and Nicobar Is.

1266. **(11)** CEYLON RUFOUS BABLER *Turdoides rufescens* R (endemic) Myna+: 25 cm. Deep primeval forest, thickets and bamboo scrub in well-wooded areas. Sri Lanka.

1267. **(9)** WHITEHEADED BABBLER *Turdoides affinis* R Bulbul+: 23 cm. Secondary jungle, wooded compounds and around cultivation and villages. Southern peninsular India; Sri Lanka.

1269. **(6)** SPINY BABBLER *Turdoides nipalensis* R Bulbul+: 25 cm. Dense secondary scrub on hillsides. W Nepal.

1272. **(14)** ASHYHEADED LAUGHING THRUSH *Garrulax cinereifrons* R (endemic) Myna+: 23 cm. Dense, humid forest. Sri Lanka.

PLATE 80

1333. **(1)** SILVEREARED MESIA *Leiothrix argentauris* R Sparrow ±: 15 cm. Evergreen biotope: Open forest, scrub jungle, secondary growth. Himalayas from Garhwal east; NE hill states; Bangladesh (Chittagong region); up to c. 2100 m.

1336. **(2)** REDBILLED LEIOTHRIX *Leiothrix lutea* R Sparrow –: 13 cm. Scrub and secondary growth. Himalayas; NE hill states. Seasonally between c. 600 and 2700 m.

1339. **(3)** NEPAL CUTIA *Cutia nipalensis* R Bulbul ±: 20 cm. Heavy oak and mossy evergreen forest. Himalayas from Kumaon east; NE hill states; between c. 900 and 2500 m.

1340. **(4)** RUFOUSBELLIED SHRIKE-BABBLER *Pteruthius rufiventer* R Bulbul –: 17 cm. Dense, moss-covered oak and evergreen forest. E Himalayas; NE hill states; between c. 1500 and 2700 m.

1341. **(8)** REDWINGED SHRIKE-BABBLER *Pteruthius flaviscapis* R Myna –: 16 cm. Heavy forest of oak, rhododendron, etc. Himalayas; NE hill states. Seasonally between c. 1200 and 2700 m.

1343. **(5)** GREEN SHRIKE-BABBLER *Pteruthius xanthochlorus* R Sparrow –: 13 cm. Oak, spruce, hemlock and deodar forest and undergrowth. Himalayas; NE hill states. Seasonally between c. 1200 and 3600 m.

1345. **(7)** CHESTNUT-THROATED SHRIKE-BABBLER *Pteruthius melanotis* R Sparrow –: 11 cm. Humid but cool, deep evergreen forest. E Himalayas; NE hill states; Bangladesh (Chittagong hill tracts). Seasonally between c. 1200 and 2700 m.

1346. **(6)** CHESTNUTFRONTED SHRIKE-BABBLER *Pteruthius aenobarbus* R Sparrow –: 11 cm. Open forest and edges of evergreen. Known only from the Garo Hills, Meghalaya (NE hill states).

1357. **(12)** REDTAILED MINLA *Minla ignotincta* R Sparrow ±: 14 cm. Humid, dense deciduous or evergreen forest. E Himalayas; NE hill states; Bangladesh (Chittagong region); up to c. 3400 m.

1359. **(9)** BARTHROATED SIVA *Minla strigula* R Sparrow ±: 14 cm. Open mixed forest of birch, willow, oak, rhododendron scrub, bamboo. Himalayas; NE hill states. Seasonally between c. 800 and 3700 m.

1362. **(10)** BLUEWINGED SIVA *Minla cyanouroptera* R Sparrow ±: 15 cm. Mixed deciduous and evergreen forest and secondary growth. Himalayas from Naini Tal east; NE hill states; Bangladesh (Chittagong region). Seasonally between c. 600 and 2500 m.

1376. **(11)** GOLDENBREASTED TIT-BABBLER *Alcippe chrysotis* R Sparrow –: 11 cm. Dense bamboo jungle, etc. on steep hillsides. E Himalayas; NE hill states. Seasonally between 1800 and 3000 m.

1395. **(14)** CHESTNUTBACKED SIBIA *Heterophasia annectens* R Bulbul –: 18 cm. Dense, humid evergreen forest. E Himalayas; NE hill states; up to c. 2300 m.

1396. **(13)** BLACKCAPPED SIBIA *Heterophasia capistrata* R Bulbul +: 21 cm. Evergreen or moist-deciduous forest of oak, chestnut, fir, etc. Himalayas, up to c. 3500 m.

1399. **(17)** GREY SIBIA *Heterophasia gracilis* R Bulbul +: 21 cm. Deciduous, pine or evergreen primeval forest. Meghalaya, the hills of Assam, the Patkai range, Nagaland and Manipur.

1400. **(15)** BEAUTIFUL SIBIA *Heterophasia pulchella* R Bulbul +: 22 cm. Subtropical wet forest. Arunachal Pradesh; NE hill states.

1401. **(16)** LONGTAILED SIBIA *Heterophasia picaoides* R Bulbul ±, with a long tail: 30 cm. Open scrub with large trees or clearings in evergreen forest. E Himalayas; NE hill states; up to c. 900 m.

PLATE 80

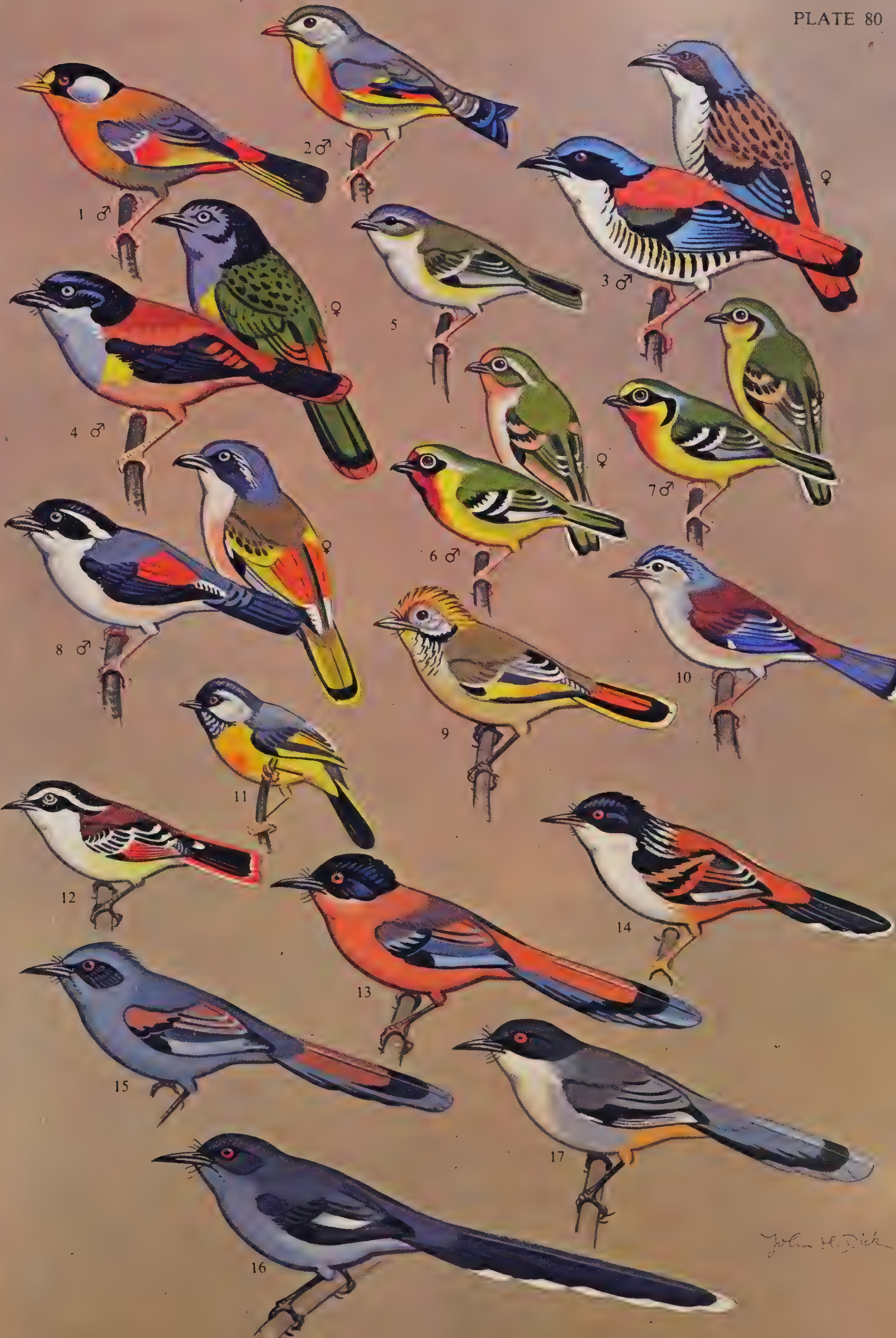
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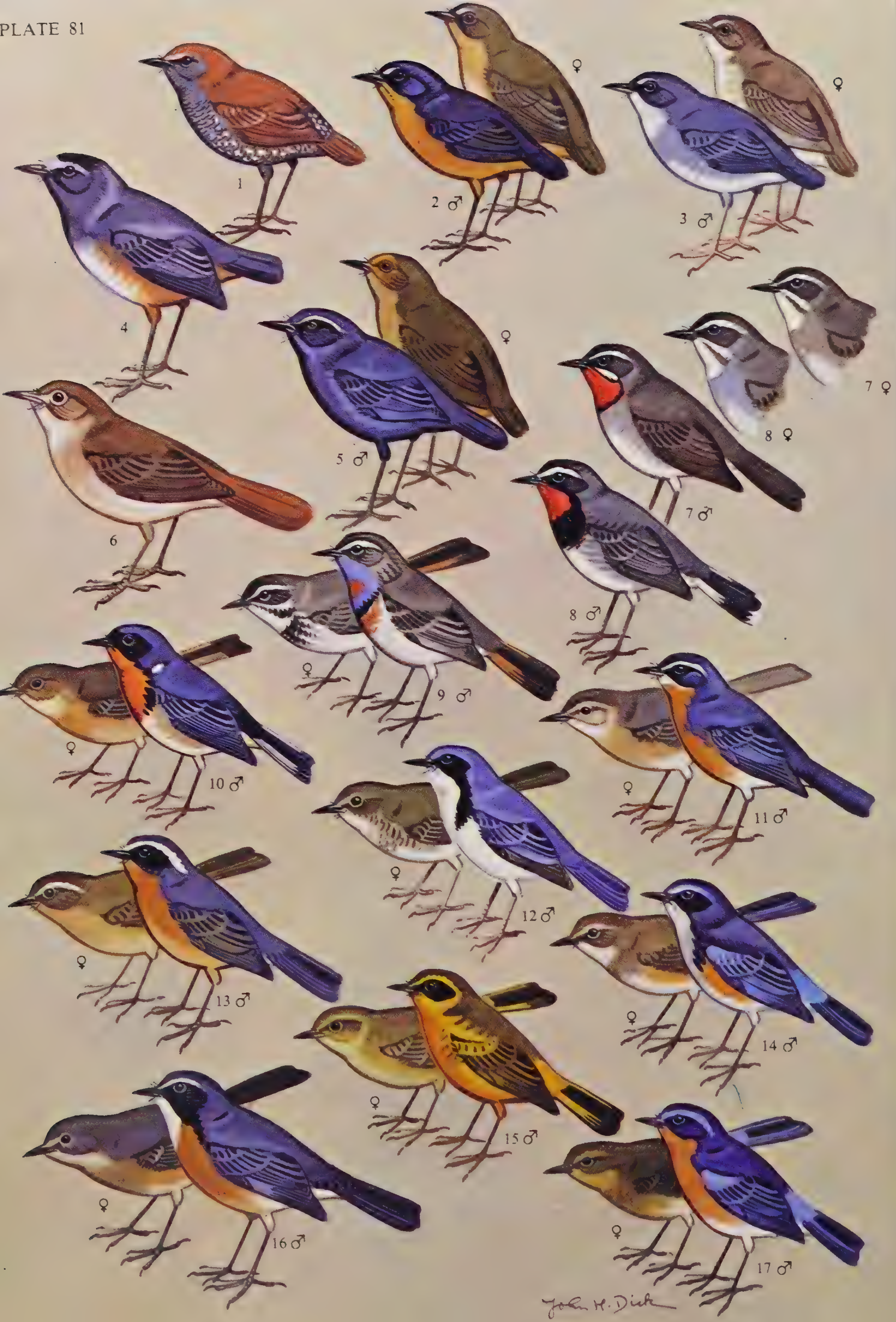
PLATE 81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1635. **(1)** GOULD'S SHORTWING *Brachypteryx stellata* R Sparrow – : 13 cm. Dense dwarf rhododendron and ringal bamboo on hillsides, and bare rocks and boulders in the alpine zone. Himalayas from Kumaon east; seasonally between c. 540 and 4200 m.

1636. **(2)** RUSTYBELLIED SHORTWING *Brachypteryx hyperythra* R Sparrow – : 13 cm. Undergrowth of shrubs, reeds and ringal bamboo. E Himalayas; NE hill states; up to c. 2900 m.

1637. **(4)** RUFOUSBELLIED SHORTWING *Brachypteryx major* R Sparrow ± : 15 cm. Well-wooded sholas, evergreen forest. Southern W Ghats complex of hills.

1639. **(3)** LESSER SHORTWING *Brachypteryx leucophrys* R Sparrow – : 13 cm. Dense undergrowth in humid forest and secondary growth near streams. Himalayas from Garhwal east; NE hill states; c. 1500-3900 m.

1640. **(5)** WHITEBROWED SHORTWING *Brachypteryx montana* R Sparrow – : 13 cm. Damp, shady oak and rhododendron forest, and dense brushwood in ravines or near streams. Himalayas from Garhwal east; NE hill states. Seasonally between c. 300 and 3300 m.

1642. **(6)** NIGHTINGALE *Erithacus megarhynchos* M Bulbul – : 18 cm. Bushes and gardens. Baluchistan; has strayed to Oudh terai.

1643. **(7)** RUBYTHROAT *Erithacus calliope* M Sparrow ± : 15 cm. Dense scrub near water, long grass, sugarcane; occasionally tea gardens. NE and E India including Bangladesh, south to the Godavari delta (winter).

1644. **(9)** BLUETHROAT *Erithacus svecicus* RM Sparrow ± : 15 cm. Sugarcane, cotton fields, grass jungle, reeds, bushes near water, gardens and fallow fields. *Summer:* Gilgit, Baltistan, Ladakh, N Kashmir and Spiti. *Winter:* Subcontinent.

1647. **(8)** HIMALAYAN RUBYTHROAT *Erithacus pectoralis* RM Sparrow ± : 15 cm. Dwarf rhododendron, juniper and other scrub, grassy hillsides, marshes and cultivation. *Summer:* Himalayas, *Winter:* Duars and lowland: N and NE India; Bangladesh. Seasonally from the foothills up to c. 4900 m.

1650. **(11)** BLUE CHAT *Erithacus brunneus* RM Sparrow ± : 15 cm. Evergreen biotope: dense undergrowth in open oak, conifer or shola forest. *Summer:* Himalayas; NE hill states; c. 1600-3300 m. *Winter:* E Himalayan foothills; SW India (W Ghats complex); Sri Lanka.

1652. **(10)** FIRETHROAT *Erithacus pectardens* V Sparrow ± : 15 cm. Single record, Garo Hills, Meghalaya.

1653. **(12)** SIBERIAN BLUE CHAT *Erithacus cyane* V Sparrow ± : 15 cm. Isolated records from Bengal duars, Manipur and S Andamans.

1656. **(14)** ORANGEFLANKED BUSH ROBIN *Erithacus cyanurus* RM Sparrow ± : 15 cm. Himalayas; Assam, Meghalaya and Manipur (winter). Seasonally from the foothills up to c. 4400 m.

1658. **(15)** GOLDEN BUSH ROBIN *Erithacus chrysaeus* R Sparrow ± : 15 cm. Evergreen biotope: dense undergrowth in rhododendron, juniper and birch forest. Himalayas; NE hill states. Seasonally from the foothills up to c. 4000 m.

1659. **(13)** WHITEBROWED BUSH ROBIN *Erithacus indicus* R Sparrow ± : 15 cm. Mixed subalpine forest of birch, fir, rhododendron and bamboo. Himalayas from Garhwal east; NE hill states. Seasonally from the foothills up to c. 4200 m.

1660. **(17)** RUFOUSBELLIED BUSH ROBIN *Erithacus hyperythrus* R? Sparrow – : 12 cm. Dwarf rhododendron, and bushes in open forest near streams. E Himalayas; NE hill states (winter only?). Seasonally from the foothills up to c. 3800 m.

EL. **(16)** WHITETHROATED ROBIN *Irania gutturalis*. Iran, Afghanistan, etc.

PLATE 82

1641. **(1)** RUFOUS CHAT *Erythropygia galactotes* RM Bulbul – : 18 cm. Dry scrub jungle, tamarisks and stony, broken country. *Breeding:* Baluchistan and NWFP. *Winter* (or passage): Pakistan and NW India.

1669. **(2)** EVERSMANN'S REDSTART *Phoenicurus erythronotus* RM Saprrow ± : 15 cm. Arid country—wasteland, scrub jungle, dry river beds, etc. *Breeding:* NW Baluchistan. *Winter:* W Himalayas east to Nepal; base to 2000 m.

1670. **(5)** BLUEHEADED REDSTART *Phoenicurus caeruleocephalus* R Sparrow ± : 15 cm. Rocky ground and steep rocky hillsides, juniper and open pine forest. Himalayas, seasonally from the foothills up to c. 3900 m.

1671. **(4)** W ssp.
1672. **(3)** E ssp. BLACK REDSTART *Phoenicurus ochruros* RM Sparrow ± : 15 cm. Stony, sparsely scrubbed broken country and near cultivation and villages. *Breeding:* Himalayas, c. 2400-5200 m. *Winter:* Subcontinent. Absent in Sri Lanka and Andaman and Nicobar Is.

1673. **(6)** REDSTART *Phoenicurus phoenicurus* M Sparrow ± : 15 cm. Gardens, well-wooded areas. Baluchistan and Chitral.

1674. **(7)** HODGSON'S REDSTART *Phoenicurus hodgsoni* M Sparrow ± : 15 cm. Dry or partly dry riverbeds in forest, cultivation, scrub, or grassland. *Winter:* Lower Himalayas from Naini Tal (U.P.) east; Assam; Manipur.

1675. **(8)** BLUEFRONTED REDSTART *Phoenicurus frontalis* R Sparrow ± : 15 cm. Dwarf rhododendron; juniper and other scrub, and boulder-strewn slopes in the alpine zone. Himalayas. *Winter:* NE hill states; Bangladesh (Chittagong region). Seasonally between c. 1000 and 5300 m.

1676. **(9)** WHITETHROATED REDSTART *Phoenicurus schisticeps* R Sparrow ± : 15 cm. Open, park-like forest, scrub in semi-dry areas. E Himalayas, 1400-4500 m.

1677. **(11)** DAURIAN REDSTART *Phoenicurus auroreus* M Sparrow ± : 15 cm. Open forest, valley floors, cultivation and trees around upland villages. *Summer:* N Arunachal Pradesh, 2800-3700 m. *Winter:* E Himalayan foothills; NE hill states.

1678. **(10)** GULDENSTADT'S REDSTART *Phoenicurus erythrogaster* R Sparrow + : 16 cm. Boulder-strewn meadows and slopes in dry, barren alpine country. Himalayas, 1500-5200 m.

1679. **(12)** PLUMBEOUS REDSTART *Rhyacornis fuliginosus* R Sparrow – : 12 cm. Rushing torrents and streams. Himalayas; NE hill states. Foothills to c. 4300 m.

1680. **(13)** HODGSON'S SHORTWING *Hodgsonius phoenicuroides* R Bulbul ± : 19 cm. Dense thickets of birch and juniper, bush jungle, undergrowth and forest edges. Himalayas, foothills to c. 4400 m.

1681. **(14)** WHITETAILED BLUE ROBIN *Cinclidium leucurum* R Bulbul – : 17 cm. Undergrowth in shady broadleafed forest, usually near streams. E Himalayas; NE hill states. Foothills to c. 2700 m.

1682. **(15)** BLUEFRONTED ROBIN *Cinclidium frontale* R Bulbul ± : 19 cm. Heavy subtropical wet forest. E Himalayas; NE hill states. Foothills to at least 2250 m.

1692. **(18)** BROWN ROCK CHAT *Cercomela fusca* R Sparrow + : 17 cm. Rocky hills, quarries, ruins, bungalows within town limits and suburbs. NW, N and C India; locally up to c. 1300 m.

1716. **(19)** WHITECAPPED REDSTART or RIVER CHAT *Chaimarrornis leucocephalus* R Bulbul ± : 19 cm. Rocky swift-flowing mountain streams. Himalayas; NE hill states. Foothills to c. 5100 m.

1717. **(17)** Brown backed ssp.*cambaiensis* of 1720. Himalayan foothills and plains of Subcontinent south to Tapi river, east to Bengal and Bangladesh.

1720. **(16)** INDIAN ROBIN *Saxicoloides fulicata* R Sparrow ± : 16 cm. Arid and stony country, semi-desert with scattered bushes, cultivations, and around habitations. Subcontinent from Tapi river south; Sri Lanka.

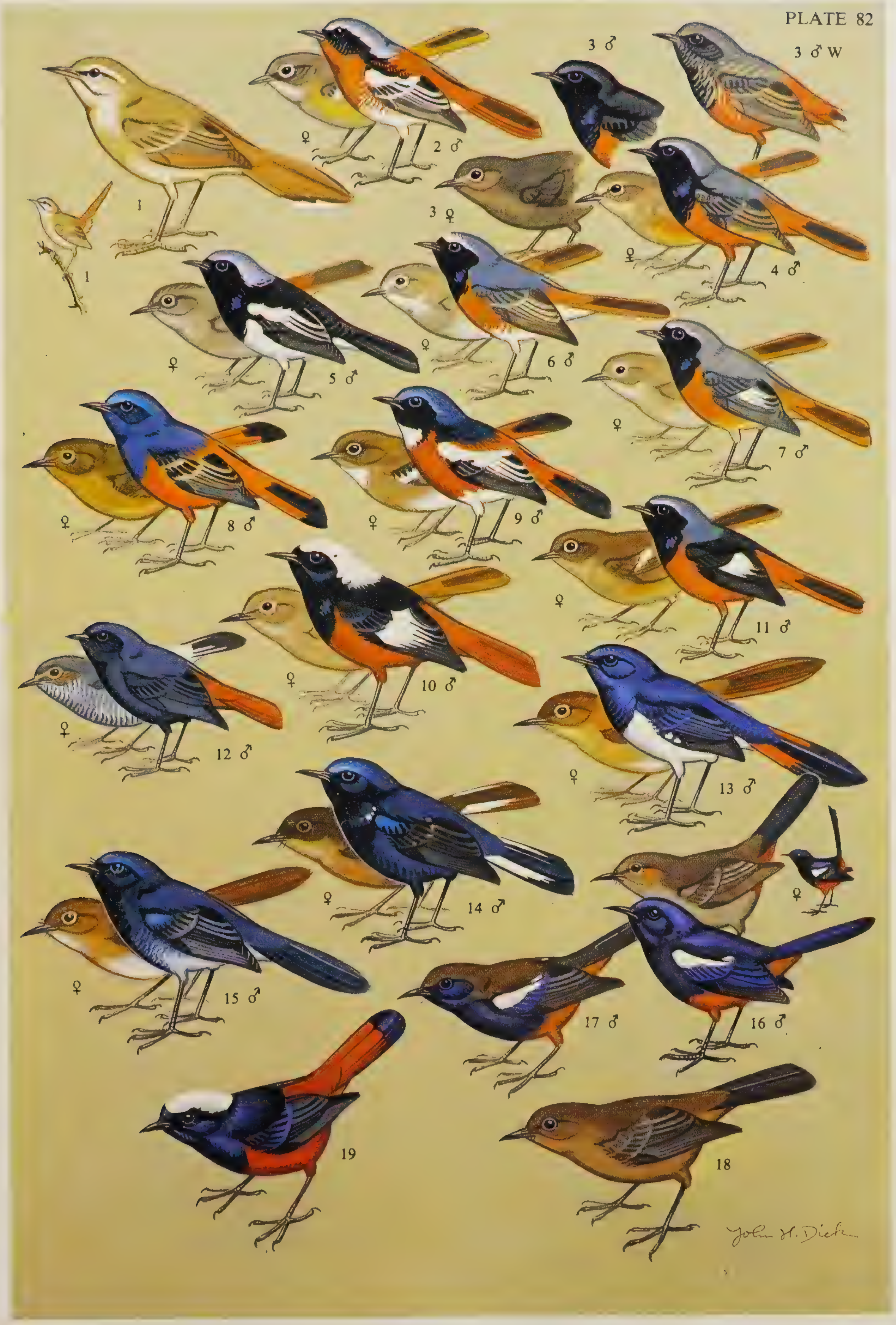
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PLATE 83

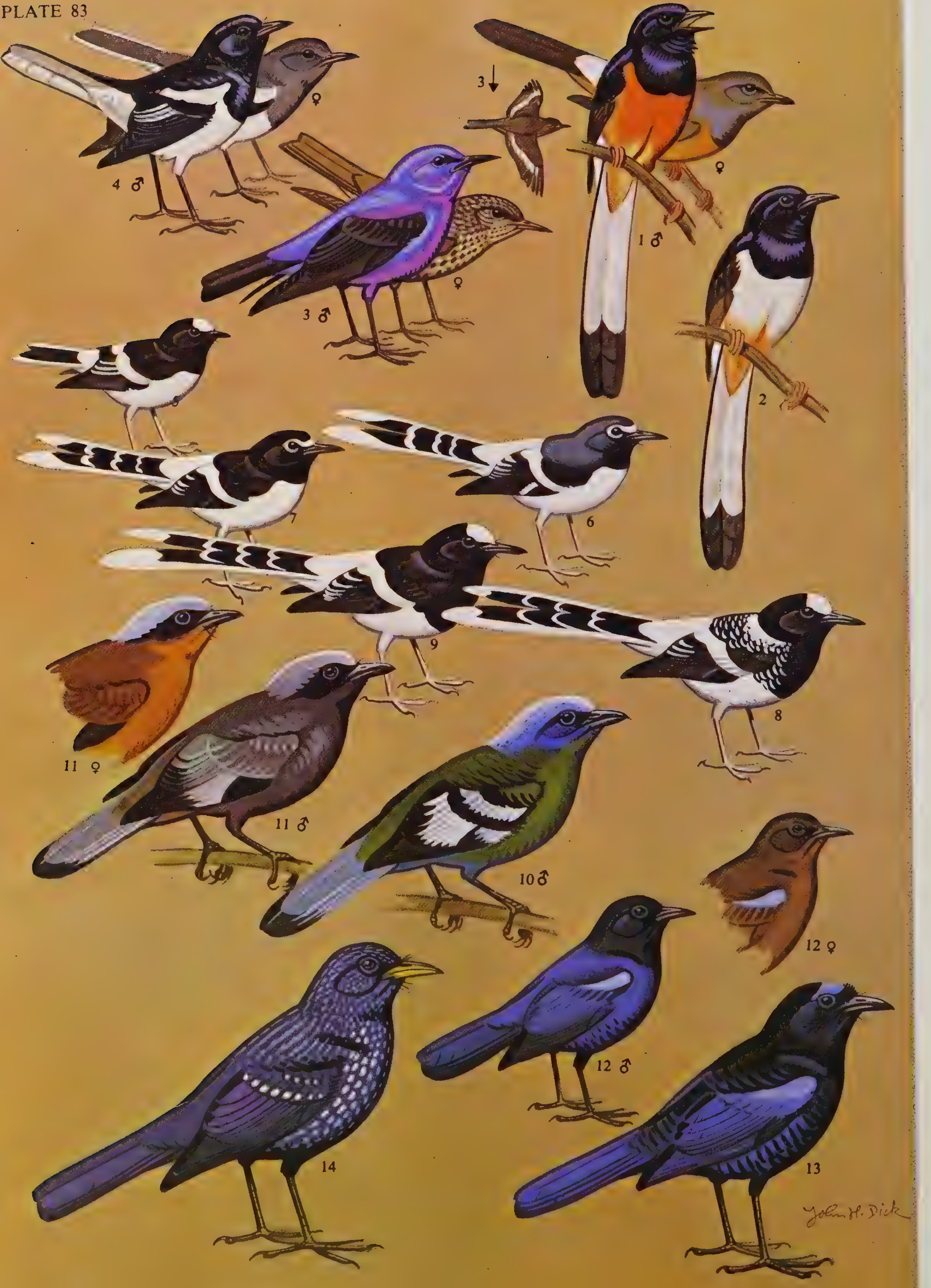
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PLATE 83

1661. **(4)** MAGPIE-ROBIN *Copsychus saularis* R Bulbul ±: 20 cm. Dry -and moist-deciduous forest, secondary jungle, and near human habitations. Subcontinent.

1665. **(1)** SHAMA *Copsychus malabaricus* R Bulbul ±, with long tail: overall 25 cm. Dry -and moist-deciduous secondary forest, hilly bamboo jungle, etc. Himalayas from Kumaon east; duars to c. 500 m. Subcontinent; Sri Lanka.

1668. **(2)** Ssp. *albiventris* of 1665. Andaman Is.

1683. **(3)** HODGSON'S GRANDALA *Grandala coelicolor* R Bulbul +: 23 cm. Rocky slopes, boulder-strewn alpine meadows, screes and cliffs. High Himalayas from Kashmir east; c. 3000-5400 m.

1684. **(5)** LITTLE FORKTAIL *Enicurus scouleri* R Sparrow –: 12 cm. Rocky streams and waterfalls. Himalayas; NE hill states; Bangladesh (Chittagong region); c. 300-3700 m.

1685. **(7)** BLACKBACKED FORKTAIL *Enicurus immaculatus* R Bulbul ±, with long tail: overall 25 cm. Rocky mountain streams and banks of fast-flowing rivulets in dense forest. Himalayas from Garhwal east; NE hill states; Bangladesh. Base of hills to c. 1450 m.

1686. **(6)** SLATYBACKED FORKTAIL *Enicurus schistaceus* R Bulbul ±, with long tail: overall 25 cm. Rocky hill torrents and forest streams. Himalayas from Kumaon east; NE hill states; Bangladesh. Base of hills to c. 1600 m.

1687. **(9)** LESCHENAULT'S FORKTAIL *Enicurus leschenaulti* R Myna ±, with long tail: overall 28 cm. Cascading torrents and rocky rivulets in dense evergreen forest. E Himalayas; NE hill states; Bangladesh. Base of hills to c. 600 m.

1688. **(8)** SPOTTED FORKTAIL *Enicurus maculatus* R Bulbul ±, with long tail: overall 25 cm. Boulder-strewn shady nullahs and streams in forest, and narrow gorges. Himalayas; NE hill states; Bangladesh (Chittagong region); c. 600-3600 m.

1690. **(11)** PURPLE COCHOA *Cochoa purpurea* R Myna +: 28 cm. Dense humid evergreen forest, and undergrowth in ravines in pine forest. E Himalayas; NE hill states; c. 1000-3000 m.

1691. **(10)** GREEN COCHOA *Cochoa viridis* R Myna +: 28 cm. Dense evergreen forest watered by small streams, usually on precipitous grounds. Himalayas from Kumaon east; NE hill states; c. 700-1500 m.

1727. **(12)** CEYLON WHISTLING THRUSH *Myiophonus blighi* R (endemic) Myna –: 20 cm. Damp, heavy forest, fern-clad ravines. Sri Lanka.

1728. **(13)** MALABAR WHISTLING THRUSH *Myiophonus horsfieldii* R Myna +: 25 cm. Waterfalls and swift rocky hill streams in shady evergreen jungle. The hills of W and peninsular India including the ghats complex. Foothills to c. 2200 m.

1729. **(14)** BLUE WHISTLING THRUSH *Myiophonus caeruleus* R Pigeon ±: 33 cm. Rivers and torrents in heavy forest, wooded ravines and gorges. N Baluchistan; Himalayas; NE hill states. Foothills to c. 4200 m.

Plate 84

1693. **(1)** STOLICZKA'S BUSH CHAT *Saxicola macrorhyncha* R Sparrow ±: 15 cm. Desert with scattered shrubs. Pakistan; NW India.

1694. **(4)** HODGSON'S BUSH CHAT *Saxicola insignis* M Sparrow +: 17 cm. Tall grassland, cane fields, reeds and tamarisks along dry river-beds. Gangetic plain; Jalpaiguri duars.

1696. **(3)** Migrant ssp. *przewalskii* of 1697. Himalayan foothills from Kangra east to Arunachal Pradesh, and south through Assam, Meghalaya and Nagaland (winter).

1697. **(2)** STONE CHAT or COLLARED BUSH CHAT *Saxicola torquata* RM Sparrow –: 13 cm. Dry, scrub-covered hillsides, wasteland, fallow fields, tamarisk jungle, etc. Subcontinent excepting extreme southern peninsula and Sri Lanka.

1699. **(7)** WHITETAILED STONE CHAT *Saxicula leucura* R Sparrow –: 13 cm. High grass, reeds and tamarisks, especially near large rivers. Sub-Himalayan terai and flood plains of the Indus, Ganges and Brahmaputra river systems.

1700. **(5)** PIED BUSH CHAT *Saxicola caprata* R Sparrow –: 13 cm. Cultivated fields, sparsely scrubbed hillsides, tamarisk, reeds, and coarse grass near water and cultivation. Subcontinent. Absent in Andaman and Nicobar Is.

1704. **(6)** JERDON'S BUSH CHAT *Saxicola jerdoni* R Sparrow ±: 15 cm. Vast expanses of elephant grass. NE India; Bangladesh. Foothills to c. 700 m.

1705. **(8)** DARK-GREY BUSH CHAT *Saxicola ferrea* R Sparrow ±: 15 cm. Open scrub-covered hillsides, forest edges, grasslands and cultivated country. *Breeding*: Himalayas; NE hill states; c. 1500-3300 m. *Winter:* Foothills, Gangetic plain, Bangladesh and NE India.

1706. **(10)** ISABELLINE CHAT *Oenanthe isabellina* RM Sparrow +: 16 cm. Sandy semi-desert and wasteland with sparse bushes. *Breeding*: Baluchistan and NWFP. *Winter*: chiefly Pakistan and NW India (Rajasthan, Kutch, etc.). Sporadically elsewhere.

1707. **(11)** REDTAILED CHAT *Oenanthe xanthoprymna* R Sparrow +: 16 cm. Flat, stony and sandy semi-desert with sparse bushes; arid rocky slopes near small streams. *Breeding*: N Baluchistan. *Winter*: Pakistan; Rajasthan, Gujarat, etc.

1708. **(9)** WHEATEAR *Oenanthe oenanthe* MV Sparrow ±: 15 cm. Stony country and cultivation. On autumn passage through Pakistan and Kashmir.

1710. **(12)** DESERT WHEATEAR *Oenanthe deserti* RM Sparrow ±: 15 cm. Arid, semi-desert broken tracts, and canal-irrigated desert cultivation. *Breeding*: N Baluchistan. *Winter*: Pakistan; N and C India.

1711. **(15)** BARNES'S CHAT *Oenanthe finschi* R Sparrow +: 17 cm. Dry stony foothills, and arid semi-desert plains N Baluchistan.

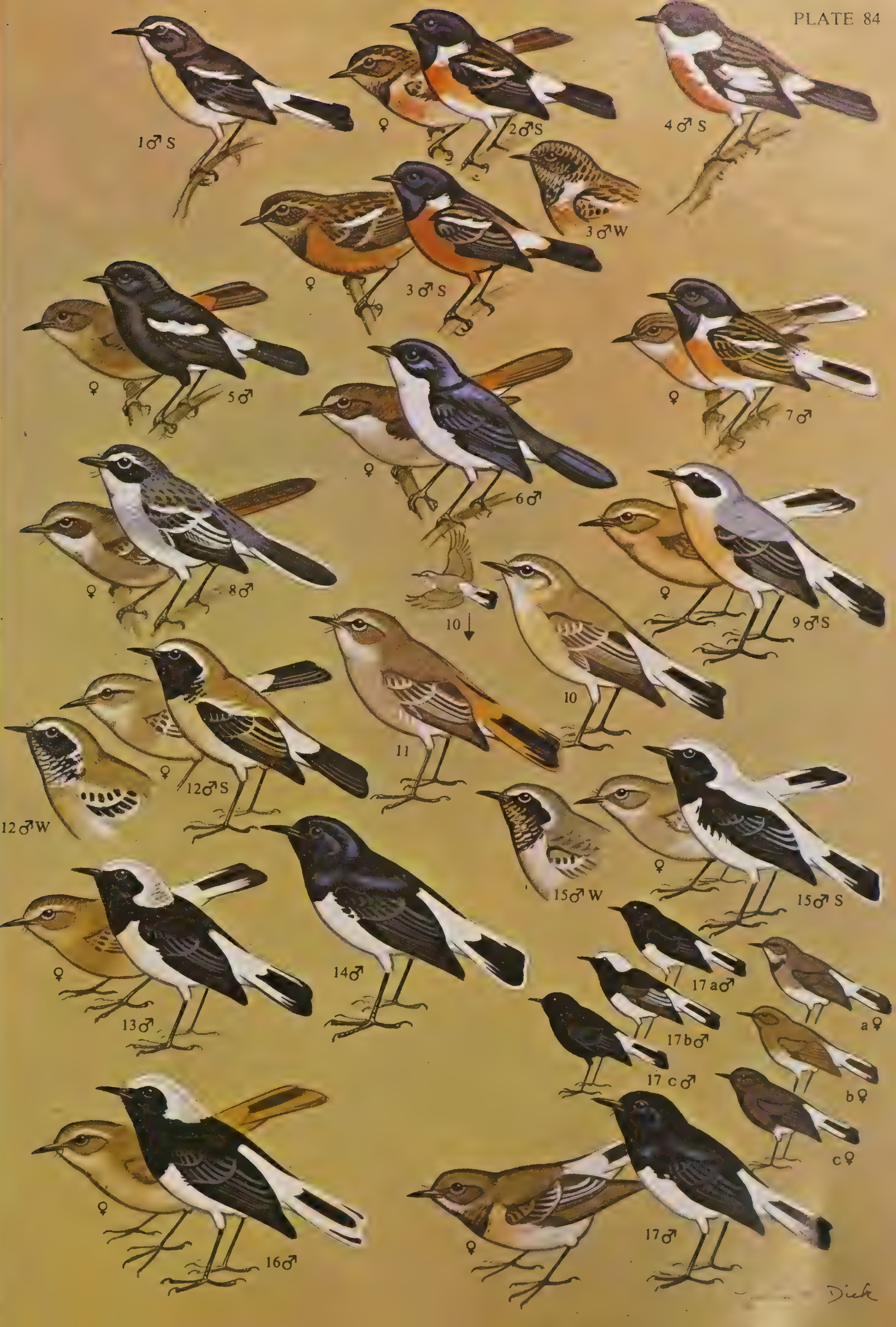
1712. **(17)** PIED CHAT *Oenanthe picata* R Sparrow +: 17 cm. Boulder-strewn barren country, sparsely scrubbed sand-dunes, ravines, cultivation, outskirts of desert villages, etc. *Breeding*: From Chitral to N Baluchistan. *Winter*: Pakistan; NW and C India. 17a. *pica* morph; 17b. *capistrata* morph; 17c. *opistholeuca* morph.

1713. **(16)** HOODED CHAT *Oenanthe monacha* R? Sparrow +: 17 cm. Desolate ravines, barren stony slopes bordering streams. *Winter*: Makran coast, Pakistan.

1714. **(14)** HUME'S CHAT *Oenanthe alboniger* R Sparrow +: 17 cm. Steep-sided boulder-strewn nullahs. Baluchistan.

1715. **(13)** PLESCHANKA'S PIED CHAT or WHEATEAR *Oenanthe pleschanka* M Sparrow ±: 15 cm. Stony wasteland. NWFP and Gilgit east through Ladakh to Lahul.

PLATE 84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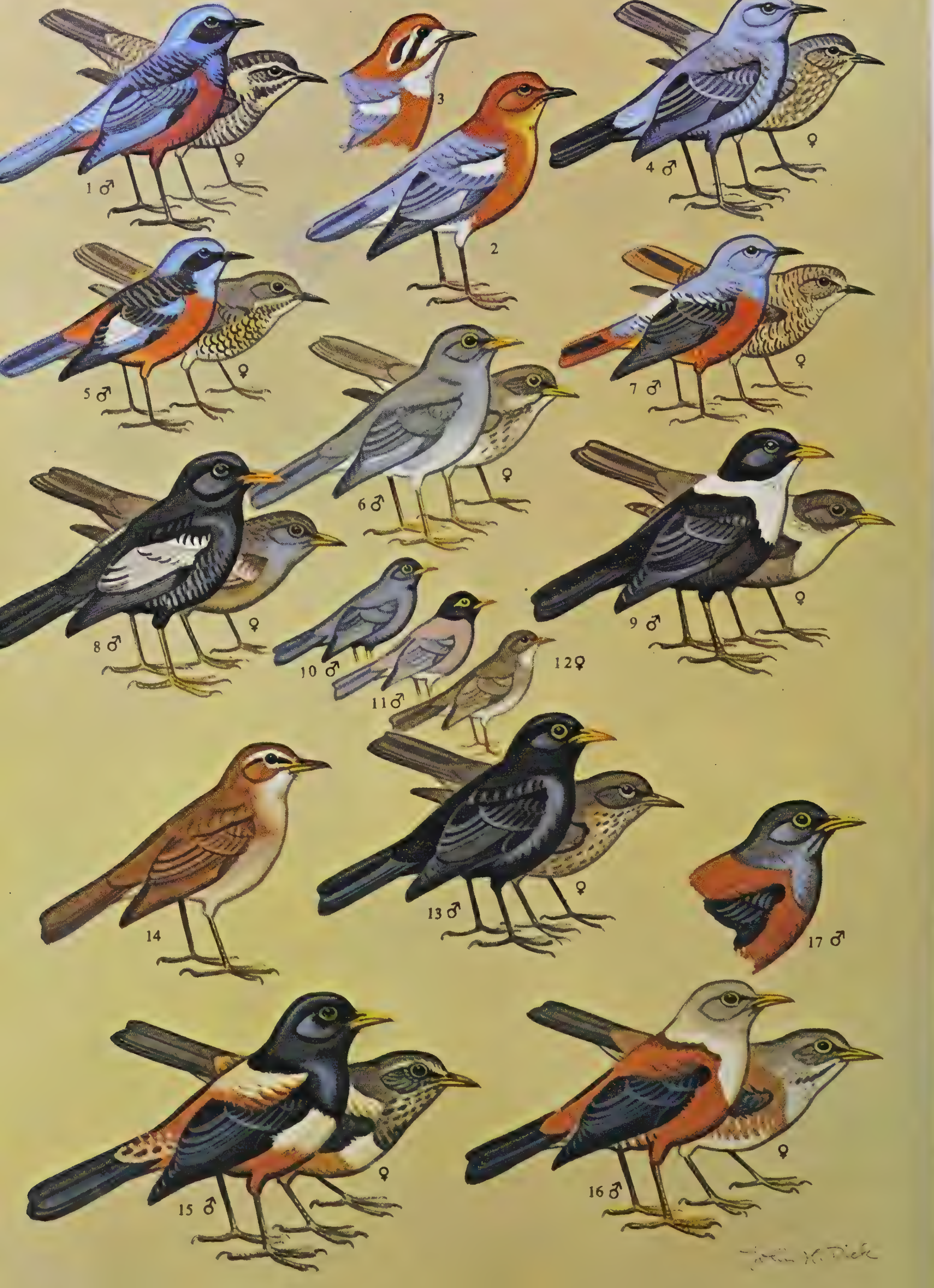
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1722. **(7)** ROCK THRUSH *Monticola saxatilis* M Bulbul ±: 19 cm. Rocky hillsides. *Breeding*: N Baluchistan, c. 2000-3000 m. In passage through NWFP, Ladakh, Kashmir and the hills of Sind.

1723. **(5)** BLUEHEADED ROCK THRUSH *Monticola cinclorhynchus* RM Bulbul – : 17 cm. *Summer* (breeding): Open forest and rocky grass-covered slopes. Himalayas; NE hill states. *Winter*: Evergreen and moist-deciduous secondary jungle. W Ghats complex from the Tapti river south; also the Assam hills.

1724. **(1)** CHESTNUTBELLIED ROCK THRUSH *Monticola rufiventris* R Myna ± : 24 cm. Open forest of pine, oak, fir and deodar on steep hillsides. Himalayas; NE hill states. Breeding c. 1000-3000 m.

1726. **(4)** BLUE ROCK THRUSH *Monticola solitarius* RM Bulbul + : 23 cm. Barren rocky country, cliffs and rocks along seashore, quarries, old forts and buildings. *Summer* (breeding): Baluchistan; W Himalayas, 1500-3000 m. *Winter*: from Himalayan foothills south throughout Subcontinent including Sri Lanka.

1733. **(2)** ORANGEHEADED GROUND THRUSH *Zoothera citrina*
1734. **(3)** Whitethroated ssp. of 1733. *Z. c. cyanotus*
M Myna – : 21 cm. Damp forest with plentiful undergrowth, mixed secondary and bamboo jungle, and groves near habitations. *Summer* (breeding): Himalayas; NE India including Bangladesh; foothills to c. 2000 m (2). Peninsular Indian hills (3). *Winter*: the Subcontinent locally; Sri Lanka; Andaman and Nicobar Is.

1748. **(6)** TICKELL'S THRUSH *Turdus unicolor* R Myna – : 21 cm. Open deciduous forest, groves, orchards, gardens. *Summer* (breeding): Himalayas, 1200-2700 m. *Winter*: From Himachal Pradesh east along the foothills; locally elsewhere in the peninsula.

1749. **(9)** WHITECOLLARED BLACKBIRD *Turdus albocinctus* R Myna + : 27 cm. Oak, chestnut, rhododendron forest often mixed with conifers. *Summer* (breeding): Himalayas; NE hill states; c. 2100-4000 m. *Winter*: Meghalaya, Cachar and Manipur.

1750. **(8)** GREYWINGED BLACKBIRD *Turdus boulboul* R Myna + : 28 cm. Humid broadleafed forest of oak, rhododendron, etc.; woods, bush jungle and village precincts (winter). Himalayas; south to Cachar. Breeds c. 1200-2700 m.

1752. **(13)** BLACKBIRD *Turdus merula* RM Myna + : 25-27 cm. Moist-deciduous and evergreen forest, sholas, wooded ravines, alpine meadows, etc. Baluchistan; Himalayas; c. 3000-4500 m (breeding). Subcontinent: hills (summer), plains (winter).

1753. **(11)** Ssp. *nigropileus* of 1752. W Ghats.

1755. **(12)** Ssp. *simillimus* of 1752. Nilgiris.

1757. **(10)** Ssp. *kinnisii* of 1752. Sri Lanka.

1758. **(16)** GREYHEADED THRUSH *Turdus rubrocanus* RM Myna + : 27 cm. Fir and horse-chestnut forest, open wooded country, orchards, etc. W Himalayas. *Winter*: Assam and Meghalaya.

1759. **(17)** Eastern ssp. *gouldii* of 1758. Occasional winter visitor to Khasi and Cachar hills.

1760. **(15)** KESSLER'S THRUSH *Turdus kessleri* V Myna + : 27 cm. Low scrub and cultivated fields. Single record of a party of four at Changu, Sikkim.

1761. **(14)** FEA'S THRUSH *Turdus feai* M Myna ± : 23 cm. Forested hills above c. 1500 m. Nagaland, Manipur, Meghalaya and Cachar.

PLATE 86

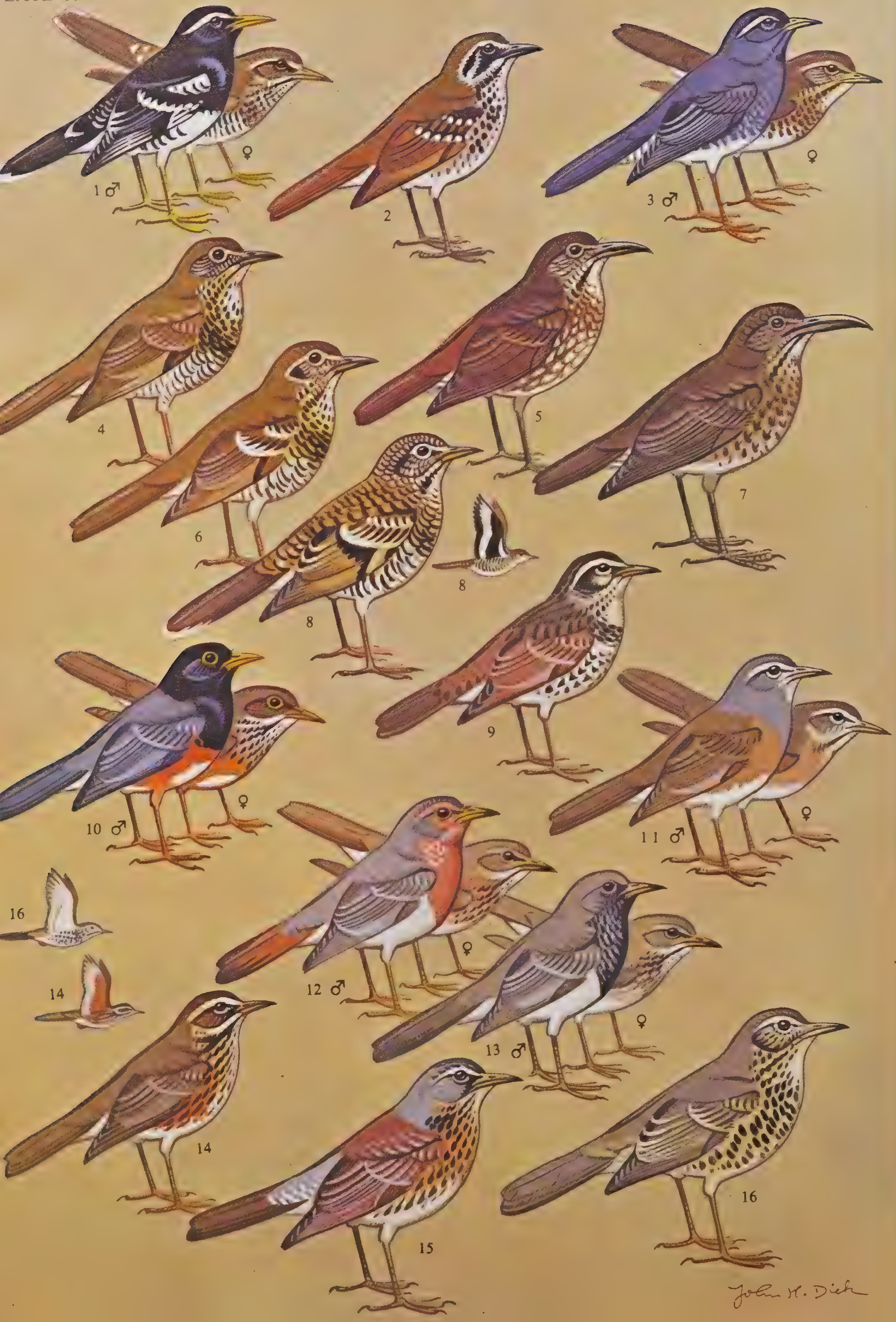
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Plate 86

1731. **(1)** PIED GROUND THRUSH *Zoothera wardii* RM Myna ±: 22 cm. Evergreen biotope: well-wooded ravines, open country and edges of forest. *Summer*: Himalayas; NE hill states. *Winter*: Southern W Ghats complex (passage?); Sri Lanka. Seasonally between c. 750 and 2400 m.

1732. **(3)** SIBERIAN GROUND THRUSH *Zoothera sibirica* M Myna ±: 22 cm. Heavy forest. Manipur hills; single record from Andaman Is.

1737. **(2)** SPOTTEDWINGED GROUND THRUSH *Zoothera spiloptera* R (endemic) Myna –: 21 cm. Forest, cardamom jungle, well-wooded country. Sri Lanka.

1739. **(4)** PLAINBACKED MOUNTAIN THRUSH *Zoothera mollissima* R Myna +: 27 cm. Open grassy hillsides and boulder-strewn slopes with dense bushes and grass. Himalayas; NE hill states. Breeding c. 3000-4300 m.

1740. **(6)** LONGTAILED MOUNTAIN THRUSH *Zoothera dixoni* R Myna +: 27 cm. Dense forest, scrub and open bush country. Himalayas; NE hill states. Breeding c. 2100-4200 m.

1741. **(8)** GOLDEN, or SMALLBILLED, MOUNTAIN THRUSH *Zoothera dauma* R Myna +: 26 cm. Dense forest, edges of pasture-land, well-wooded margins of streams, bamboo brakes, etc. Himalayas; NE hill states; also the southern W Ghats complex; Sri Lanka. Breeding c. 2100-3600 m.

1745. **(7)** LARGE BROWN THRUSH *Zoothera monticola* R Myna +: 28 cm. Small mountain streams in dense evergreen forest, and dark undergrowth. Himalayas; NE hill states; Bangladesh (Chittagong hill tracts). Seasonally from foothills to c. 3000 m.

1746. **(5)** LESSER BROWN THRUSH *Zoothera marginata* R Myna +: 25 cm. Dense undergrowth along watercourses in damp evergreen forest. Lower E Himalayas; NE hill states; Bangladesh.

1747. **(10)** BLACKBREASTED THRUSH *Turdus dissimilis* R Myna ±: 22 cm. Damp evergreen woods with ample undergrowth, and mixed oak and rhododendron forest; also scrub jungle. NE hill states c. 1200-2400 m.

1762. **(11)** DARK THRUSH *Turdus obscurus* M Myna ±: 23 cm. Open forest. Arunachal Pradesh; NE hill states; Bangladesh.

1763. **(13)** BLACKTHROATED THRUSH *Turdus ruficollis atrogularis*
1764. **(12)** REDTHROATED THRUSH Ssp. *ruficollis* M Myna +: 25 cm. Grassy slopes,
forest edges, sparsely scrubbed fallow land, stubble fields and pastures, etc. Baluchistan; Himalayas; NE hill states; Bangladesh; up to c. 3000 m.

1765. **(9)** DUSKY THRUSH *Turdus naumanni* M Myna ±: 23 cm. Open fields, grassland and thinly wooded country. E Himalayas; NE hill states; c. 900-3000 m.

1766. **(15)** FIELDFARE *Turdus pilaris* V Myna +: 27 cm. Fields and orchards. Single record, Saharanpur, U.P.

1767. **(14)** REDWING *Turdus iliacus* V (M?) Myna ±: 22 cm. Open forest and fields. Stray isolated records from NWFP and Kashmir.

1768. **(16)** MISTLE THRUSH *Turdus viscivorus* R Myna +: 28 cm. Mixed open forest of conifers, oak or birch; also open grassy hillsides and hill cultivation (winter). *Summer* (breeding): N Baluchistan, NWFP, Chitral, Gilgit east to Nepal, 1800-3600 m. *Winter*: Foothills and adjacent plains.

Plate 87

1474. **(1)** PALEFOOTED BUSH WARBLER *Cettia pallidipes* R Sparrow – : 10 cm. Grass-and-bush or secondary jungle, and glades in evergreen or pine forest. Himalayan foothills from Dehra Dun east; NE hill states; Andaman Is. Seasonally, foothills to c. 1500 m.

1476. **(2)** CHINESE BUSH WARBLER *Cettia diphone* V Sparrow ± : ♂: 16 cm; ♀ : 14 cm. Two records, Assam.

1478. **(3)** STRONGFOOTED BUSH WARBLER *Cettia montana* R Sparrow – : 11 cm. Bush-covered hillsides, bushes and undergrowth in open mixed forest. Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 3300 m.

1479. **(6)** LARGE BUSH WARBLER *Cettia major* R Sparrow – : 13 cm. Dense rhododendron jungle in subalpine silver fir forest, or dwarf rhododendron thickets. Himalayas from Garhwal and Kumaon east; NE hill states. Seasonally, terai to 4000 m.

1481. **(4)** ABERRANT BUSH WARBLER *Cettia flavolivacea* R Sparrow – : 13 cm. Long grass, dense bushes and undergrowth in forest. Himalayas from Garhwal east; NE hill states. Seasonally, 700-3600 m.

1484. **(7)** VERREAUX'S BUSH WARBLER *Cettia acanthizoides* R Sparrow – : 11 cm. Dense ringal bamboo stands or open forest. Himalayas from Garhwal east; c. 2400-3700 m (summer).

1486. **(5)** RUFOUSCAPPED BUSH WARBLER *Cettia brunnifrons* R Sparrow – : 10 cm. Stunted juniper and furze bushes on stony hillsides and in open coniferous forest. Himalayas, c. 2400-3700 m (summer); also in the foothills and flood plains of the Brahmaputra, to Meghalaya (winter).

1488. **(11)** CETTI'S WARBLER *Cettia cetti* M Sparrow – : 12 cm. Partially submerged bulrushes, reeds, high grass and tamarisks. The flood plains of the Indus; possibly also Baluchistan.

1490. **(10)** SPOTTED BUSH WARBLER *Bradypterus thoracicus* R Sparrow – : 13 cm. Bracken, dwarf juniper and other low scrub. Himalayas from Garhwal and Kumaon east. Seasonally, terai and plains to 4000+ m.

1491. **(13)** LARGEBILLED BUSH WARBLER *Bradypterus major* R Sparrow – : 13 cm. Low thorny scrub interspersed with rank grass and bracken fringing forest. W Himalayas from Gilgit and the Kagan valley east through Ladakh and Kashmir. Seasonally, c. 1200-3600 m.

1492. **(15)** CHINESE BUSH WARBLER *Bradypterus tacsanowskius* M? Sparrow – : 14 cm. Grass and bushes, stubble fields, standing rice and reed-beds. Three records: Jalpaiguri duars and Nepal terai (winter).

1493. **(8)** BROWN BUSH WARBLER *Bradypterus luteoventris* R Sparrow – : 13 cm. Grassy downs, high grass and bracken-covered hillsides. E Himalayas; NE hill states. Seasonally, foothills to 3300 m.

1494. **(9)** PALLISER'S WARBLER *Bradypterus palliseri* R (endemic) Sparrow – : 14 cm. Undergrowth and dwarf bamboo in damp forest. Sri Lanka, above c. 900 m.

1594. **(14)** THICKBILLED WARBLER *Acrocephalus aedon* M Bulbul ± : 20 cm. Reeds and bushes in marshy places, tall grass and weeds in abandoned clearings, tea and coffee plantations. NE and peninsular India; Bangladesh; Andaman and Nicobar Is.

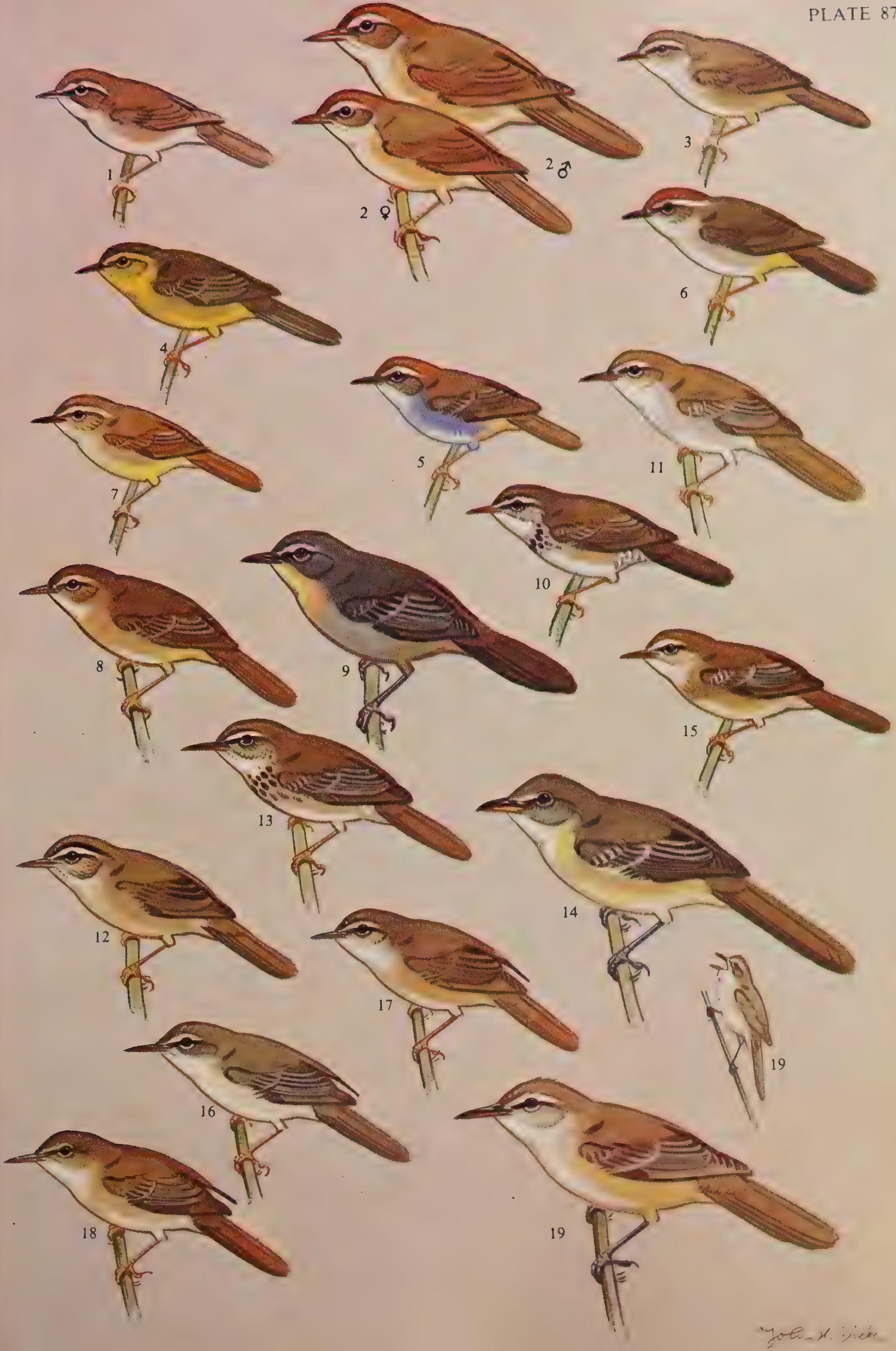
1500. **(19)** INDIAN GREAT REED WARBLER *Acrocephalus stentoreus* R Bulbul ± : 19 cm. Reed-beds and shrubs around lakes, jheels, ponds, canals, etc. Subcontinent; Sri Lanka; Andaman Is. Breeding abundantly in Kashmir valley, c. 1800 m.

1555. **(12)** BLACKBROWED REED WARBLER *Acrocephalus bistrigiceps* M Sparrow – : 13 cm. Dense cover near marshes, high grass and ricefields. Assam, Manipur and lower Bengal.

1555a. **(18)** REED WARBLER *Acrocephalus scirpaceus* R Sparrow – : 13 cm. Reed-beds. Probably breeds in N Baluchistan; may winter on the Makran coast.

1556. **(16)** BLYTH'S REED WARBLER *Acrocephalus dumetorum* RM Sparrow – : 14 cm. Bushes, hedges, orchards, bamboo clumps and grain fields, mainly in deciduous biotope. *Breeding*: N Baluchistan. *Winter*: Subcontinent.

1557. **(17)** PADDYFIELD WARBLER *Acrocephalus agricola* RM Sparrow – : 13 cm. Reed-beds, elephant grass, sugarcane and wet rice cultivation. *Breeding*: N Baluchistan. *Winter:* Subcontinent. Absent in Sri Lanka.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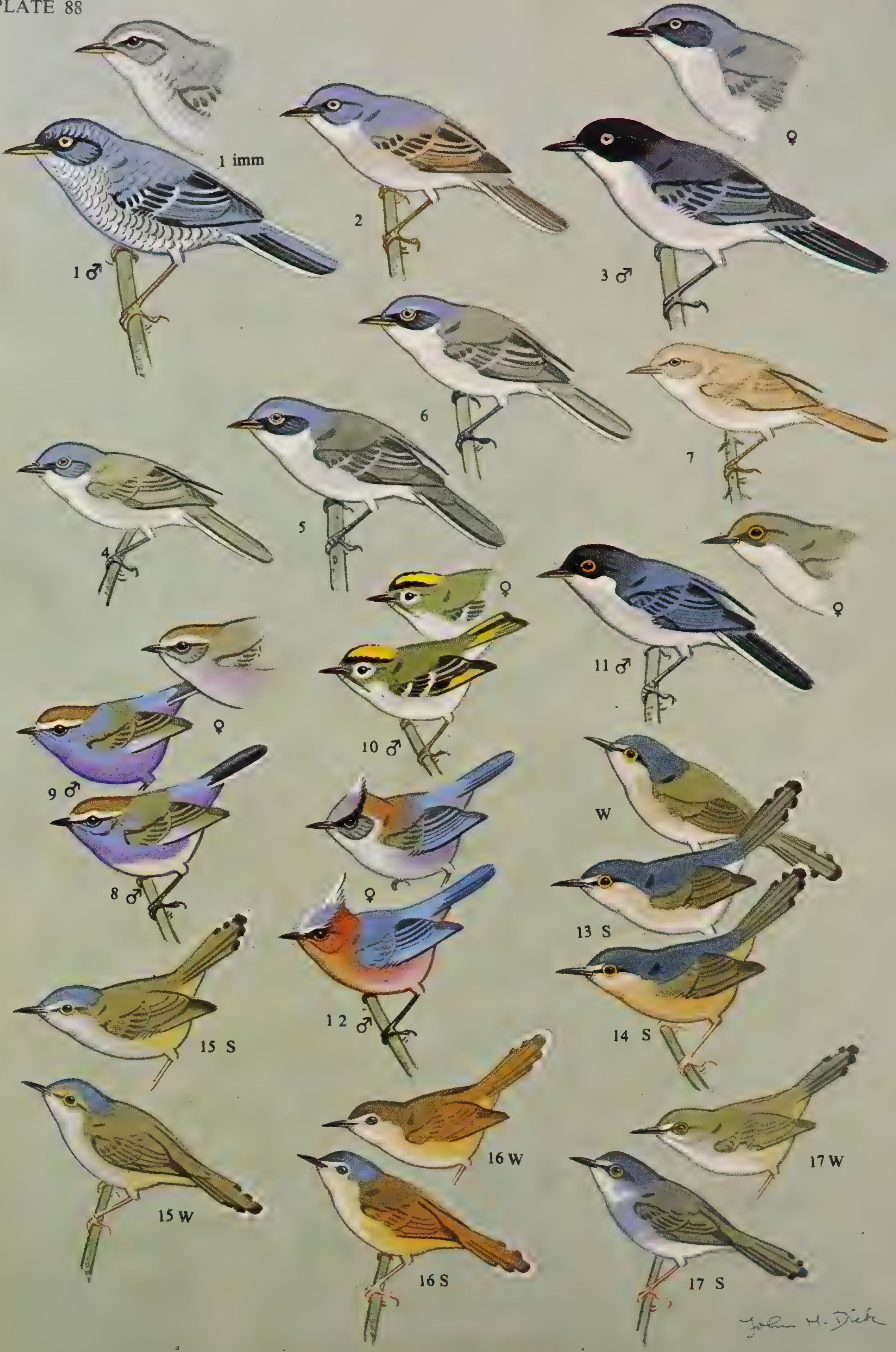
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Plate 88

1501. **(16)** RUFOUS WREN-WARBLER *Prinia rufescens* R Sparrow – : 11 cm. Stands of long grass, secondary growth and weeds on open forested hillsides. E Himalayas; NE hill states; Bangladesh; Orissa. Foothills to c. 1800 m.

1503. **(17)** FRANKLIN'S WREN-WARBLER *Prinia hodgsonii* R Sparrow – : 11 cm. Scrub and grass jungle, undergrowth in deciduous forest, mangrove swamps, reed-beds, etc. Subcontinent. Absent in Andaman and Nicobar Is.

1507. **(15)** HODGSON'S WREN-WARBLER *Prinia cinereocapilla* R Sparrow – : 11 cm. Dense jungle, secondary growth and trees. Himalayan duns and bhabar from Kumaon east.

1515. **(14)** Ssp. *stewarti* of 1517. Upper Indus system (Pakistan) and India from Himalayan foothills south to Narbada river and S Bihar; NE India.

1517. **(13)** ASHY WREN-WARBLER *Prinia socialis* R Sparrow – : 13 cm. *Sarpat* grass, reeds, scrub and grass around cultivation, bracken-covered slopes, gardens. Peninsular India south of Narbada river and S Bihar; Sri Lanka.

1564a.**(1)** BARRED WARBLER *Sylvia nisoria* V Sparrow ±: 16 cm. Bushes. Two records: Gilgit and Ladakh.

1565. **(3)** ORPHEAN WARBLER *Sylvia hortensis* M Sparrow ±: 15 cm. Shrubs on stony slopes and semi-desert. *Summer*: N Baluchistan and NWFP. *Winter*: Pakistan; India from the Indus east, and south to Bihar and Tamil Nadu.

1566. **(2)** WHITETHROAT *Sylvia communis* M Sparrow – : 14 cm. Bushes, hedges amidst cultivation and scrub in semi-desert. *Summer*: N Baluchistan. *Autumn* (passage): Pakistan and NW India south to W Gujarat.

1567. **(6)** Ssp. *blythi*
1569. **(4)** Ssp. *minula* LESSER WHITETHROAT *Sylvia curruca* M Sparrow – : 12 cm. Scrub jungle
1570. **(5)** Ssp. *althaea*
and bushes in semi-desert stony country. Breeding (althaea) : N Baluchistan; NWFP to Ladakh and Kashmir. *Winter* (all sspp.): Semi-desert and drier areas of the Subcontinent.

1571. **(7)** DESERT WARBLER *Sylvia nana* M Sparrow – : 11 cm. Scrub in semi-desert, stony hillsides, and low vegetation on salty mudflats. Pakistan and NW India east to Haryana, Rajasthan and Kutch.

1571a. **(11)** MÉNÈTRIES'S WARBLER *Sylvia mystacea* V Sparrow – : 12 cm. Bushes of willow and tamarisk. Passage migrant in Baluchistan.

1629. **(10)** GOLDCREST *Regulus regulus* R Sparrow – : 8 cm. Conifer forest. Himalayas, seasonally from c. 1500 m to upper limit of conifer forest.

1632. **(12)** CRESTED TIT-WARBLER *Leptopoecile elegans* R Sparrow – : 10 cm. Fir forest and juniper scrub. Presumably occuring in Arunachal Pradesh adjacent to SE Tibet where resident. Seasonally, c. 2800-4300 m.

1633. **(8)** STOLICZKA'S TIT-WARBLER *Leptopoecila sophiae* R Sparrow – : 10 cm. Dwarf juniper and other scrub and thickets of *Hippophae* and willows. Baltistan, Gilgit, Ladakh. Seasonally, c. 1800-3900 m.

1634. **(9)** Ssp. *obscura* of 1633. From C Nepal eastwards, c. 2800-4000 m.

1495. **(10)** MOUSTACHED SEDGE WARBLER *Acrocephalus melanopogon* R Sparrow ±: 15 cm. Reed-beds and partially submerged vegetation in jheels, etc. *Breeding*: Baluchistan; Punjab; Kumaon terai. *Winter*: N and NW India.

1496. **(22)** FANTAIL WARBLER *Cisticola exilis* R Sparrow –: 10 cm. Tall coarse grass and bracken scrub on open hillsides and lowlands. Southern W Ghats complex; Sub-Himalayan terai; NE India; Bangladesh.

1498. **(20)** STREAKED FANTAIL WARBLER *Cisticola juncidis* R Sparrow –: 10 cm. Tall grass, reed-beds, ricefields, dry grassland, etc. Subcontinent. Absent in Andaman Is.

1506. **(8)** RUFOUSFRONTED WREN-WARBLER *Prinia buchanani* R Sparrow –: 12 cm. Arid scrub and grass jungle in semi-desert. N and C India.

1508. **(7)** STREAKED WREN-WARBLER *Prinia gracilis* R Sparrow –: 13 cm. Tamarisk, grass and scrub jungle in sandy, semi-desert country. Baluchistan; NW Pakistan; NW India, Himalayan foothills, and Gangetic plain east to Brahmaputra river.

1511. **(12)** PLAIN WREN-WARBLER *Prinia subflava* R Sparrow –: 13 cm. Mixed thorn scrub and tall grass jungle, secondary growth, cultivation, etc. Subcontinent. Absent in Andaman and Nicobar Is.

1521. **(13)** JUNGLE WREN-WARBLER *Prinia sylvatica* R Sparrow ±: 15 cm. Low bush jungle mixed with coarse grass. Subcontinent. Absent in Andaman and Nicobar Is.

1524. **(14)** Ssp. *sindiana* of 1521. Pakistan.

1525. **(15)** YELLOWBELLIED WREN-WARBLER *Prinia flaviventris* R Sparrow –: 13 cm. Humid grassland mixed with bushes, elephant grass, reeds and thin secondary growth. Pakistan; N and NE India; Bangladesh.

1527. **(19)** BROWN HILL WARBLER *Prinia criniger* R Sparrow ±: 16 cm. Grass and scrub jungle and open pine forest on hillsides. N Pakistan and Himalayan foothills; NE hill states. Seasonally, c. 600-3100 m.

1529. **(11)** BLACKTHROATED HILL WARBLER *Prinia atrogularis* R Sparrow –, with long tail: overall 17 cm. Open scrub and grass jungle on hillsides. E Himalayas; NE hill states; Bangladesh; c. 900-2500 m.

1531. **(17)** LONGTAILED GRASS WARBLER *Prinia burnesii* R Sparrow –, with long tail: overall 17 cm. Stretches of *sarkhan* grass and bushes, near rivers. Pakistan: flood plains of the Indus river system.

1532. **(16)** Disjunct Eastern ssp. *cinerascens* of 1531. R Sparrow –, with long tail: overall 16 cm. Elephant grass near large rivers and in swamps. Assam plains of the Brahmaputra river system; Bangladesh.

1533. **(18)** STREAKED SCRUB WARBLER *Scotocerca inquieta* R Sparrow –: 10 cm. Scrub and grass clumps on arid, rocky hillsides. Baluchistan, NW Pakistan; foothills to c. 3000 m.

1534. **(21)** LARGE GRASS WARBLER *Graminicola bengalensis* R Sparrow ±: 16 cm. Tall grass and reeds. From W Nepal terai east through Bengal and flood plains of the Brahmaputra; Bangladesh; Manipur.

1543. **(1)** PALLAS'S GRASSHOPPER WARBLER *Locustella certhiola* M Sparrow –: 13 cm. Swamps, reed-beds and ricefields. NE and C India; Bangladesh; Sri Lanka; Andaman and Nicobar Is.

1544. **(9)** STREAKED GRASSHOPPER WARBLER *Locustella lanceolata* M Sparrow –: 13 cm. Dense bush and grassland, sugarcane, rice stubbles. N and NE India; Bangladesh; Andaman and Nicobar Is.

1545. **(3)** GRASSHOPPER WARBLER *Locustella naevia* M Sparrow –: 13 cm. Edges of reservoirs and swampy depressions, damp grass and tamarisk jungle. Subcontinent.

EL. **(4)** Ssp. *obscurior* of 1545. N Caucasus. SW Iran (winter).

1546. **(2)** BROADTAILED GRASS WARBLER *Schoenicola platyura* R Sparrow +: 18 cm. Tall grass and scrub covered hillsides, reeds and grass in marshy depressions. Southern W Ghats complex from Belgaum south.

1547. **(6)** BRISTLED GRASS WARBLER *Chaetornis striatus* R Sparrow +: 20 cm. Coarse grassland intermixed with bushes and standing ricefields. Subcontinent. Absent in Sri Lanka; Andaman and Nicobar Is.

1548. **(5)** STRIATED MARSH WARBLER *Megalurus plaustris* R Bulbul +: 25 cm. Grass and reeds in marshes, tall grass and scrub in cultivation. N Pakistan; N and NE India.

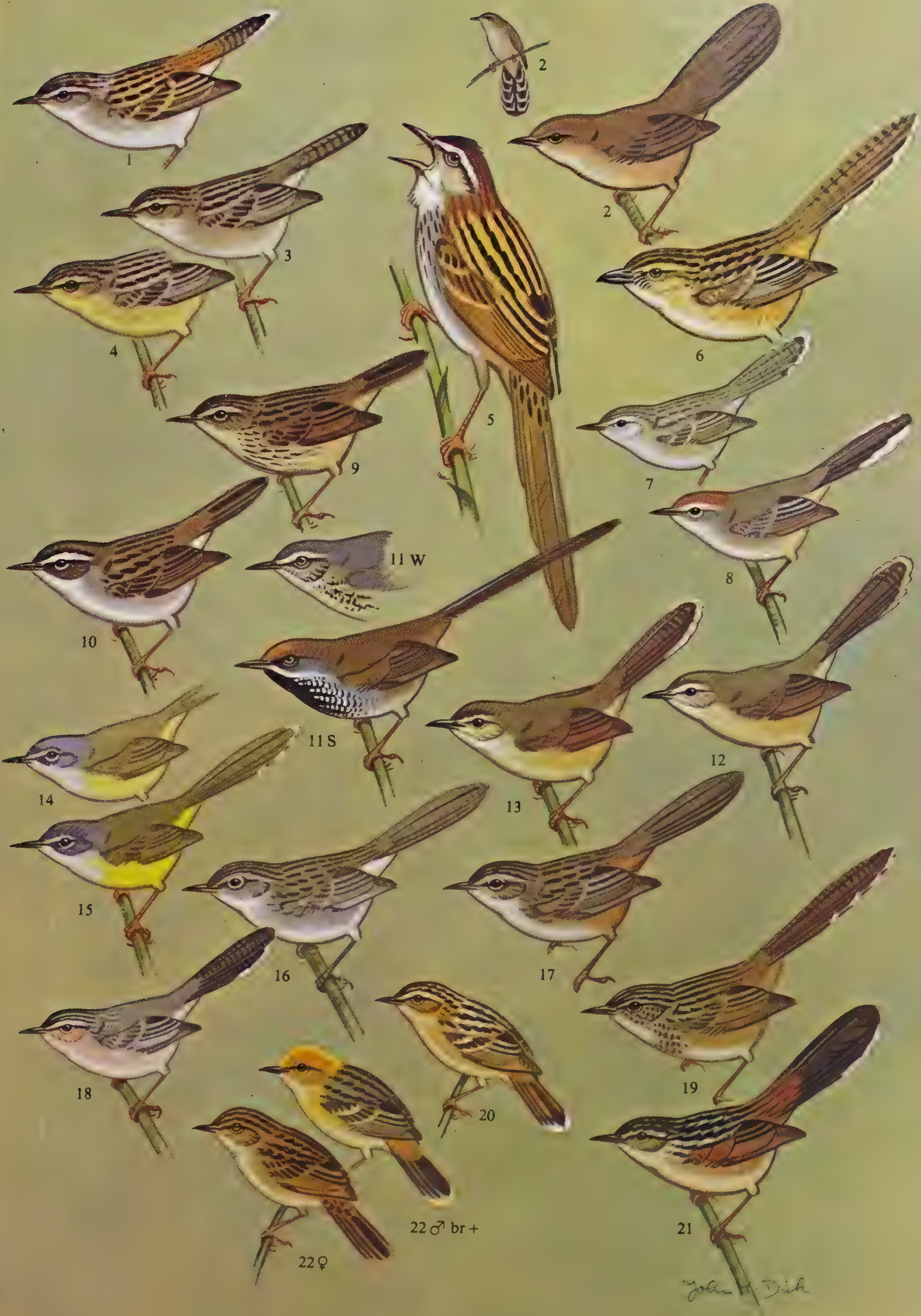
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PLATE 90

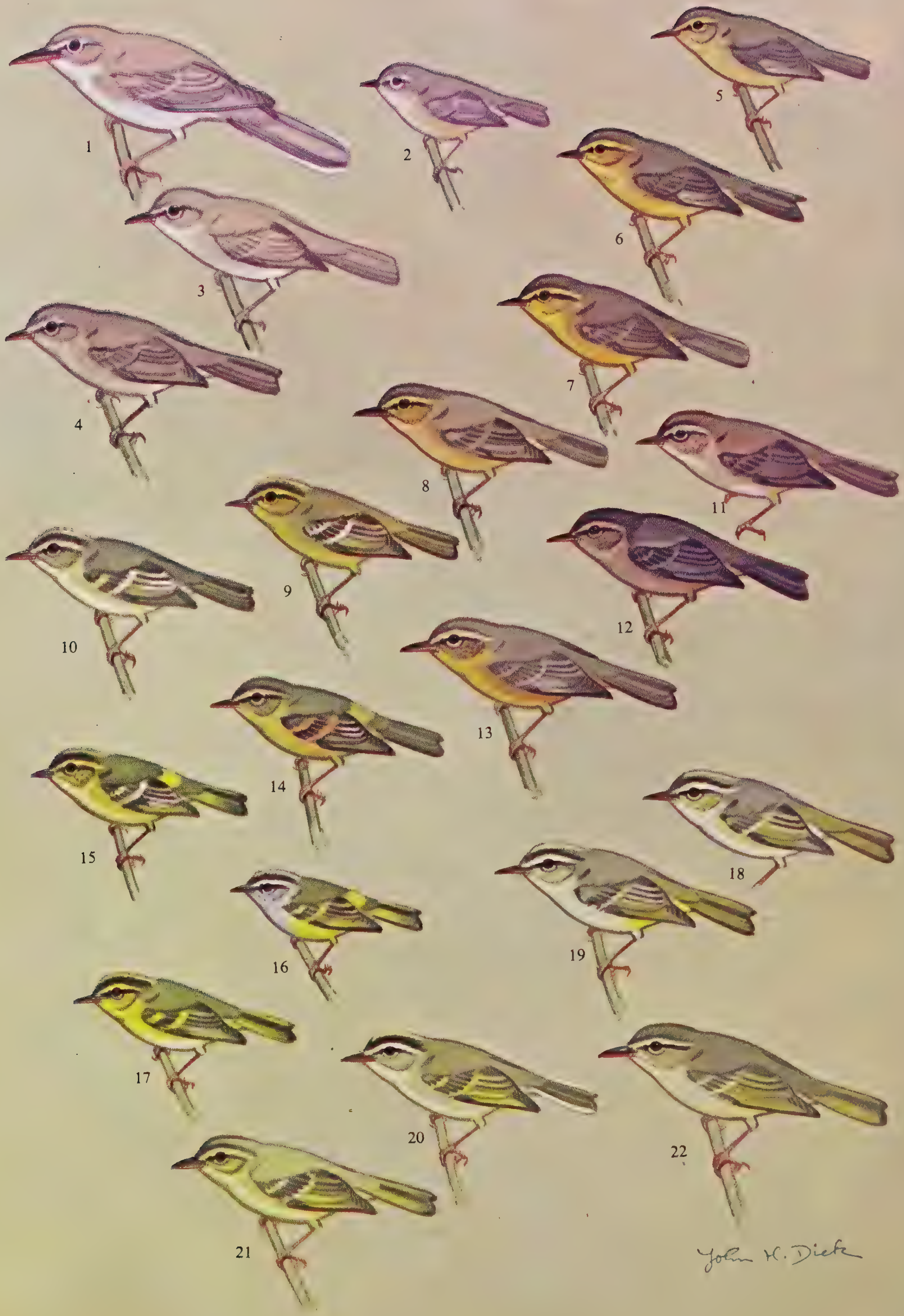
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PLATE 90

1562. (3) BOOTED WARBLER *Hippolais caligata* RM Sparrow –: 12 cm. Deciduous scrub jungle. *Breeding*: N Baluchistan; NWFP. *Winter*: Subcontinent; Sri Lanka.

1564. (1) UPCHER'S WARBLER *Hippolais languida* M Sparrow –: 14 cm. Stunted bush-covered stony hill slopes. Baluchistan (Quetta).

1574. (4) BROWN LEAF WARBLER, or CHIFFCHAFF *Phylloscopus collybita* M Sparrow –: 10 cm. Bushes, hedges, gardens, scrub jungle. *Summer*: Baltistan, Gilgit, Ladakh, Rupshu, Lahul, Spiti, c. 2500-4400 m. *Winter*: Himalayan foothills and Subcontinent.

1577. (2) PLAIN LEAF WARBLER *Phylloscopus neglectus* M Sparrow –: 10 cm. Low bushes, juniper forest, tamarisks and acacias. *Summer:* N Baluchistan; NWFP east to Kashmir. *Winter:* W Himalayan foothills south through Sind and S Baluchistan. Seasonally, foothills to c. 3000 m.

1578. (5) TYTLER'S LEAF WARBLER *Phylloscopus tytleri* M Sparrow –: 10 cm. Coniferous forest; also dwarf willows and birches. *Summer:* W Himalayas in Gilgit, Hazara, Kashmir; c. 2400 m to timber line. *Winter:* W Ghats complex south of Khandala.

1579. (6) TICKELL'S LEAF WARBLER *Phylloscopus affinis* M Sparrow –: 10 cm. Scrub, secondary jungle, well-wooded country. *Summer*: Himalayas, c. 2700 m to timber line. *Winter*: Subcontinent.

1580.* (7) Buffbellied ssp. *arcanus* of 1579. Kathmandu valley and W Nepal terai (winter).

1581. (8) OLIVACEOUS LEAF WARBLER *Phylloscopus griseolus* RM Sparrow –: 10 cm. Deciduous biotope: stony hillsides with sparse bushes. *Summer:* N Baluchistan; NW Himalayas; c. 2400-4500 m. *Winter:* Subcontinent.

1582. (12) SMOKY WILLOW WARBLER *Phylloscopus fuligiventer* R Sparrow –: 10 cm. Low scrub, boulder-strewn alpine meadows, along banks of watercourses, etc. E Himalayas. *Winter*: W Nepal terai and duns east. Seasonally, foothills to c. 4500 m.

1586. (11) DUSKY LEAF WARBLER *Phylloscopus fuscatus* M Sparrow –: 10 cm. Scrub jungle, low bushes, reeds and long grass around pools, hedges and standing crops. E Himalayas; N and NE India; Bangladesh; Andaman Is. Up to c. 1400 m.

1588. (14) ORANGEBARRED LEAF WARBLER *Phylloscopus pulcher* R Sparrow –: 10 cm. Subalpine mixed conifer-rhododendron and birch forest, scrub. Himalayas; NE hill states. Seasonally, c. 500-4300 m.

1592. (10) PLAIN, or YELLOWBROWED, LEAF WARBLER *Phylloscopus inornatus* RM Sparrow –: 10 cm. Scrub, gardens, groves and open forest. *Summer*: W Himalayas, up to c. 3600 m. *Winter*: Subcontinent.

1593. (9) BROOKS'S LEAF WARBLER *Phylloscopus subviridis* R Sparrow –: 10 cm. Coniferous forest, bushes, olive groves and acacias. NWFP; NW Himalayas; c. 2100-3600 m. *Winter*: N India.

1594. (15) PALLAS'S LEAF WARBLER *Phylloscopus proregulus* R Sparrow –: 9 cm. Conifer or mixed forest, woods and bush-covered hillsides. Himalayas, c. 2200-4200 m. *Winter*: Foothills; NE India; Bangladesh.

1601. (22) LARGEBILLED LEAF WARBLER *Phylloscopus magnirostris* M Sparrow –: 12 cm. Deciduous or evergreen forest. *Summer*: Himalayas, c. 1800-3600 m. *Winter*: NE and peninsular India; Sri Lanka; Andaman Is.

1605. (21) DULL GREEN LEAF WARBLER *Phylloscopus trochiloides* M Sparrow –: 10 cm. Gardens, wooded compounds, groves and open deciduous forest. *Summer*: Himalayas; NE hill states; c. 2700-4200 m. *Winter*: Subcontinent.

1606. (18) LARGE CROWNED LEAF WARBLER *Phylloscopus occipitalis* M Sparrow –: 10 cm. Dry- and moist-deciduous, evergreen or subtropical wet forest. *Summer*: W Himalayas from NWFP and Baltistan to Garhwal and Kumaon c. 1800-3200 m. *Winter*: Subcontinent.

1607. (19) Eastern ssp. *coronatus* of 1606. NE India; Bangladesh (winter).

1609. (20) BLYTH'S LEAF WARBLER *Phylloscopus reguloides* R Sparrow –: 9 cm. Oak, rhododendron, conifer, evergreen wet or pine forest. Himalayas; NE hill states. Seasonally, plains and foothills to c. 3600 m.

1612. (17) BLACKBROWED LEAF WARBLER *Phylloscopus cantator* R Sparrow –: 9 cm. Dense evergreen, open deciduous and mixed forest. *Breeding:* Assam and ?Manipur. *Winter:* NE India including Bangladesh (Chittagong region).

E1. (13) RADDE'S LEAF WARBLER *Phylloscopus schwarzi* USSR, Manchuria, etc.

PLATE 91

1449. **(8)** GREYHEADED FLYCATCHER *Culicicapa ceylonensis* R Sparrow – : 9 cm. Deciduous or evergreen forest, sholas, secondary and mixed bamboo forest. *Summer*: Himalayas (up to c. 3000 m); NE hill states; C India; E and W Ghats. *Winter*: Subcontinent; Sri Lanka.

1450. **(1)** YELLOWBELLIED FANTAIL FLYCATCHER *Rhipidura hypoxantha* R Sparrow – : 8 cm. Evergreen biotope: mixed coniferous and birch or rhododendron forest. Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to tree-line.

1471. **(15)** DULL SLATYBELLIED GROUND WARBLER *Tesia cyaniventer* R Sparrow – : 9 cm. By small streams in dense shady evergreen and moist-deciduous forest. Himalayas from Garhwal east; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 2550 m.

1472. **(16)** SLATYBELLIED GROUND WARBLER *Tesia olivea* R Sparrow – : 9 cm. Dense undergrowth of ferns, nettles and weeds in humid tropical forest. E Himalayas; NE hill states.

1473. **(17)** CHESTNUT-HEADED GROUND WARBLER *Tesia castaneocoronata* R Sparrow – : 8 cm. Dense undergrowth of bushes, ferns, nettles or bamboo, near streams in high forest. Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 3900 m.

1538. **(11)** TAILOR BIRD *Orthotomus sutorius* R Sparrow – : 13 cm. Scrub country near cultivation, gardens, wooded compounds and deciduous jungle. Subcontinent. Absent in Andaman and Nicobar Is.

1540. **(14)** BLACKNECKED TAILOR BIRD *Orthotomus atrogularis* R Sparrow – : 13 cm. Heavy scrub and edges of evergreen forest. E Himalayas; NE hill states; up to c. 1800 m.

1541. **(12)** GOLDENHEADED TAILOR BIRD *Orthotomus cucullatus* R Sparrow – : 12 cm. Evergreen biotope: scrub, grass and bamboo jungle, secondary growth. E Himalayas; NE hill states; up to c. 1800 m.

1613. **(5)** ALLIED FLYCATCHER-WARBLER *Seicercus affinis* R Sparrow – : 10 cm. Dense evergreen, broadleafed or pine forest. E Himalayas; NE hill states. Seasonally, foothills to c. 2300 m.

1615. **(2)** BLACKBROWED FLYCATCHER-WARBLER *Seicercus burkii* R Sparrow – : 10 cm. Evergreen, dense deciduous or mixed forest. *Breeding*: Himalayas; NE hill states; Bangladesh. *Winter*: foothills and plains of N India south to Maharashtra. Seasonally, foothills to c. 3700 m.

1617. **(7)** GREYHEADED FLYCATCHER-WARBLER *Seicercus xanthoschistos* R Sparrow – : 10 cm. Coniferous or open evergreen forest, scrub jungle and gardens. Himalayas; NE hill states. Seasonally, foothills to c. 2700 m.

1620. **(9)** GREYCHEEKED FLYCATCHER-WARBLER *Seicercus poliogenys* R Sparrow – : 10 cm. Open evergreen forest and dense bamboo jungle. E Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 3000 m.

1621. **(13)** CHESTNUT-HEADED FLYCATCHER-WARBLER *Seicercus castaniceps* R Sparrow – : 10 cm. Dense subtropical, pine and wet-temperate forest. E Himalayas; NE hill states; Bangladesh (Chittagong region).

1622. **(6)** YELLOWBELLIED FLYCATCHER-WARBLER *Abroscopus superciliaris* R Sparrow – : 9 cm. Mixed bamboo forest, secondary and scrub jungle, and near streams. E Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 2400 m.

1624. **(4)** BLACKFACED FLYCATCHER-WARBLER *Abroscopus schisticeps* R Sparrow – : 9 cm. In forest with undergrowth of scrub or bamboo, near streams. E Himalayas; NE hill states; c. 1500-2500 m.

1626. **(3)** WHITETHROATED FLYCATCHER-WARBLER *Abroscopus albogularis* R Sparrow – : 8 cm. Bamboo jungle, secondary scrub and moist-deciduous forest. E Himalayas; NE hill states; Bangladesh (Chittagong region); c. 300-1800 m.

1627. **(10)** BROADBILLLED FLYCATCHER-WARBLER *Abroscopus hodgsoni* R Sparrow – : 10 cm. Dense scrub and bamboo along forest edges. E Himalayas; NE hill states. Breeds between c. 1100 and 2700 m.

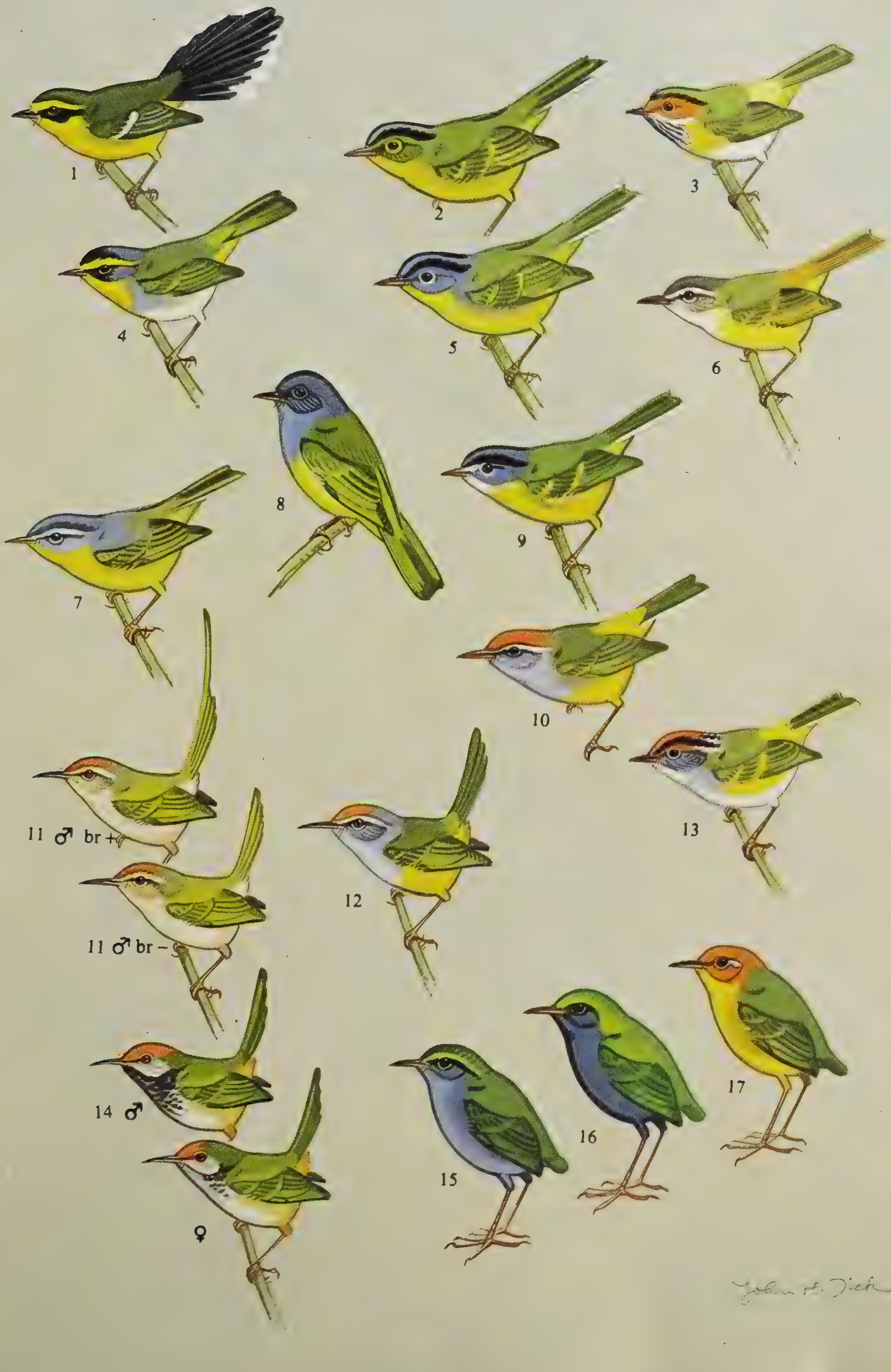
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PLATE 92

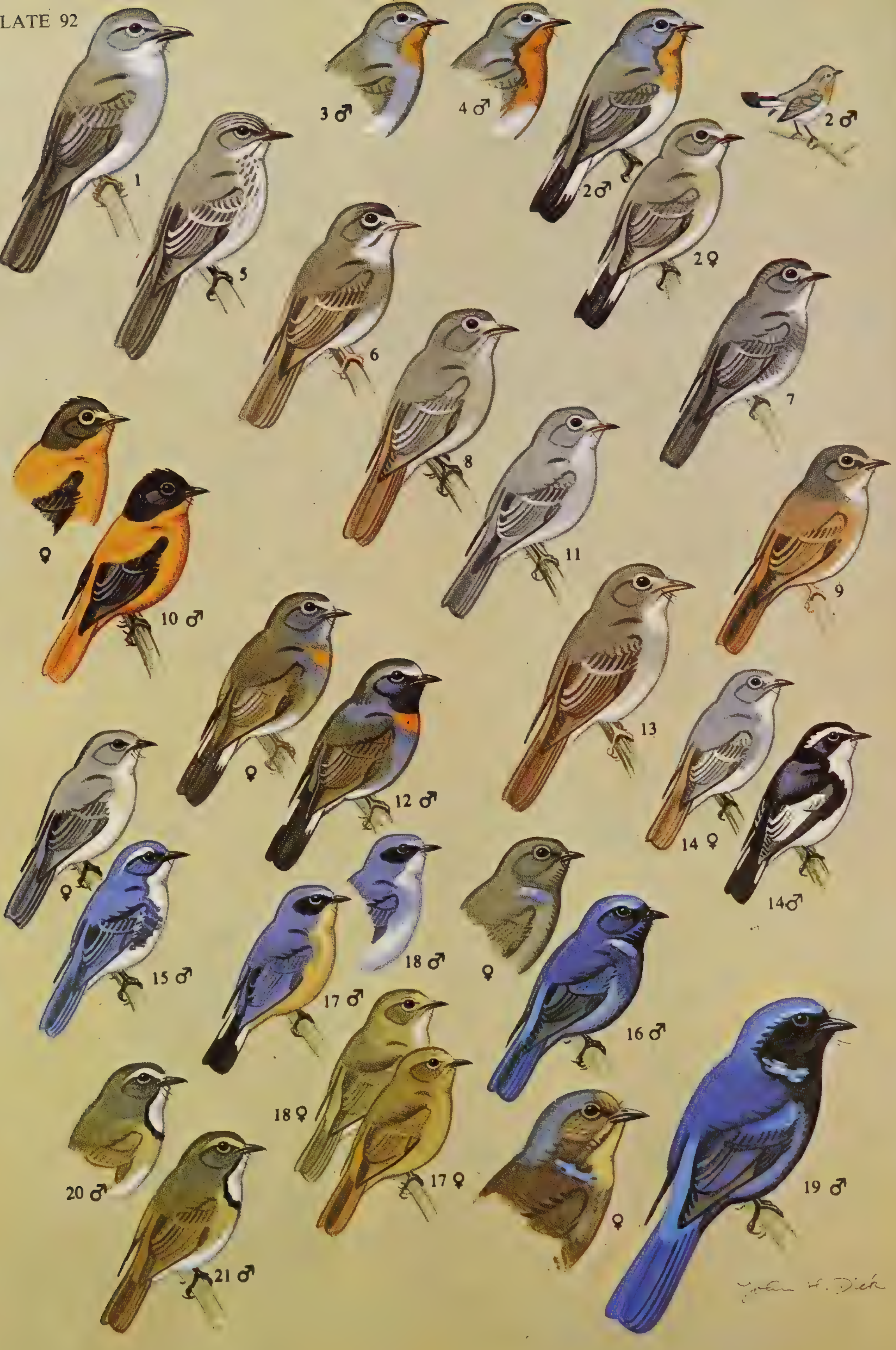
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PLATE 92

1402. **(13)** OLIVE FLYCATCHER *Rhinomyias brunneata* M Sparrow ±: 14 cm. Forest, sometimes gardens. Great and Little Nicobar Is.

1403. **(5)** SPOTTED FLYCATCHER *Muscicapa striata* R Sparrow –: 13 cm. Open forest, especially pine. *Summer*: Baluchistan; NW Himalayas. *Breeding* between c. 2100 and 3300 m. *Autumn* (passage): Pakistan and NW India.

1406. **(7)** SOOTY FLYCATCHER *Muscicapa sibirica* R Sparrow –: 13 cm. Open forest of conifer and oak. Himalayas; NE hill states. Seasonally, foothills to timber-line.

1407. **(11)** BROWN FLYCATCHER *Muscicapa latirostris* RM Sparrow ±: 14 cm. Woodland, scrub, cultivation, etc. Himalayan foothills; peninsular India (hilly regions); W Ghats complex from N Kanara south; Sri Lanka; Andaman Is.

1408. **(6)** BROWNBREASTED FLYCATCHER *Muscicapa muttui* R Sparrow –: 13 cm. Dense evergreen forest and jungle. *Summer:* NE hill states above 1200 m. *Winter:* SW India; Sri Lanka.

1409. **(8)** RUFOUSTAILED FLYCATCHER *Muscicapa ruficauda* M Sparrow ± : 14 cm. Conifer, deciduous and evergreen forest. *Summer:* W Himalayas, c. 2100-3600 m. *Winter:* SW India.

1410. **(9)** FERRUGINOUS FLYCATCHER *Muscicapa ferruginea* R Sparrow –: 10 cm. Wet forest of fir and oak, and dense mixed jungle. E Himalayas; NE hill states; c. 1800-3300 m.

1411. **(2)** REDBREASTED FLYCATCHER *Muscicapa parva* M Sparrow –: 13 cm. Groves, forest plantations, gardens with large trees, etc. Pakistan and India east to Bengal, south to Karnataka.

1412. **(3)** Eastern ssp. *albicilla* of 1411. E and NE India, south through the peninsula to Kerala.

1413. **(4)** KASHMIR REDBREASTED FLYCATCHER *Muscicapa subrubra* R Sparrow –: 13 cm. Temperate mixed forest, gardens, tea estates, etc. *Summer*: Kashmir and Pir Panjal range, c. 1800-2700 m. *Winter*: Sri Lanka.

1414. **(12)** ORANGEGORGETED FLYCATCHER *Muscicapa strophiata* R Sparrow –: 13 cm. Oak, rhododendron, conifer, birch and shady mixed forest. Himalayas; NE hill states. *Winter*: South of the Brahmaputra to Bangladesh (Chittagong). Seasonally, foothills to c. 3700 m.

1415. **(21)** WHITEGORGETED FLYCATCHER *Muscicapa monileger* R Sparrow –: 11 cm. Dense bush jungle, scrubby ravines or thick undergrowth in tropical forest. E Himalayas, foothills to c. 2000 m.

1416. **(20)** Ssp. *leucops* of 1415. NE hill states; Bangladesh (Chittagong region).

1419 1420. **(14)** LITTLE PIED FLYCATCHER *Muscicapa westermanni* R Sparrow –: 10 cm. Dense evergreen or deciduous forest, open woodland, orchards, etc. *Summer*: E Himalayas; NE hill states. *Winter*: foothills and plains, C and E India; Bangladesh. Seasonally, foothills to c. 2700 m.

1421. **(15)** WHITEBROWED BLUE FLYCATCHER *Muscicapa superciliaris* R Sparrow –: 10 cm. Open deciduous forest, groves, gardens and orchards, up to c. 3200 m. *Summer*: Himalayas; NE hill states. *Winter*: N and C India.

1423. **(17)** SLATY BLUE FLYCATCHER *Muscicapa leucomelanura* R Sparrow –: 10 cm. Dense mixed forest of oak and rhododendron, and woodland with ample undergrowth. W Himalayas, seasonally, foothills to c. 4000 m.

1424. **(18)** Eastern ssp. *minuta* of 1423. E Himalayas; NE hill states.

1427. **(10)** BLACK-AND-ORANGE FLYCATCHER *Muscicapa nigrorufa* R Sparrow –; 13 cm. Dense evergreen sholas with ample undergrowth, edges of coffee plantations, and dank ravines. W Ghats complex from Wynaad south.

1428. **(19)** LARGE NILTAVA *Muscicapa grandis* R Bulbul ±: 20 cm. Dense humid forest and secondary jungle on steep hillsides and in ravines. E Himalayas; NE hill states. Seasonally, foothills to c. 2700 m.

1429. **(16)** SMALL NILTAVA *Muscicapa macgrigroriae* R Sparrow –: 11 cm. Bushes near streams, shady glades and mixed heavy secondary jungle. Himalayas from Kumaon east; NE hill states. Seasonally, foothills to c. 2100 m.

1470. **(1)** GREY THICKHEAD, or MANGROVE WHISTLER *Pachycephala grisola* R Sparrow +: 17 cm. Mangroves and shrubby trees. Sundarbans of Bengal and Bangladesh; Andaman Is.

PLATE 93

1417. **(5)** RUFOUSBREASTED BLUE FLYCATCHER *Muscicapa hyperythra* R Sparrow – : 11 cm. Dense primary forest with luxuriant undergrowth. Himalayas from Kumaon east; NE hill states. Seasonally, 300-3000 m.

1418. **(4)** RUSTYBREASTED BLUE FLYCATCHER *Muscicapa hodgsonii* R Sparrow – : 13 cm. Conifer, oak and rhododendron forest, and thick scrub bamboo. E Himalayas; NE hill states. Seasonally, foothills to 3900 m.

1426. **(2)** SAPPHIREHEADED FLYCATCHER *Muscicapa sapphira* R Sparrow – : 12 cm. Evergreen forest. E Himalayas; NE hill states. Seasonally, 800-2600 m.

1432. **(14)** RUFOUSBELLIED NILTAVA *Muscicapa sundara* R Sparrow ±: 15 cm. Dense undergrowth in forest, secondary growth and brush-covered hillsides. *Summer*: Himalayas; NE hill states; c. 1800-3200 m. *Winter*: foothills and adjacent plains; Bangladesh (Chittagong region).

1433. **(16)** RUFOUSBELLIED BLUE FLYCATCHER *Muscicapa vivida* R Sparrow + : 18 cm. Dense brushwood in evergreen forest. Arunachal Pradesh, the eastern hills of Manipur; Nagaland (?). Seasonally, 1500-2700 m.

1434. **(15)** WHITETAILED BLUE FLYCATCHER *Muscicapa concreta* R Bulbul – : 18 cm. Deep forest. Said to breed in the Patkai Range (Burma border) above 1500 m; obtained in winter in the Margherita-Dibrugarh area.

1435. **(9)** WHITEBELLIED BLUE FLYCATCHER *Muscicapa pallipes* R Sparrow ±: 15 cm. Undergrowth in evergreen forest, sholas, *Strobilanthes* and cardamon ravines. W Ghats complex from c. 19°N south. Foothills to c. 1500 m.

1436. **(8)** BROOKS'S FLYCATCHER *Muscicapa poliogenys* R Sparrow – : 14 cm. Tropical evergreen and moist-deciduous forest. E Himalayas; NE hill states (up to c. 1500 m); E Ghats complex in Orissa and Andhra Pradesh (up to c. 1000 m).

1439. **(11)** PALE BLUE FLYCATCHER *Muscicapa unicolor* R Sparrow ±: 16 cm. Moist-deciduous or evergreen biotope: secondary or bamboo jungle, dense humid forest. Himalayas from Garhwal east; NE hill states; Bangladesh (Chittagong hill tracts). Seasonally, foothills to c. 1800 m.

1440. **(6)** BLUETHROATED FLYCATCHER *Muscicapa rubeculoides* R Sparrow – : 14 cm. Moist-deciduous or evergreen biotope: forest with ample undergrowth, secondary or bamboo jungle. *Summer*: Himalayan foothills; NE hill states; Bangladesh. *Winter*: continental and peninsular India; Sri Lanka. Seasonally, foothills to c. 1800 m.

1441. **(7)** LARGEBILLED BLUE FLYCATCHER *Muscicapa banyumas* R Sparrow – : 14 cm. Shady ravines and undergrowth in dense humid forest. E Himalayas; NE hill states. Seasonally, foothills to c. 2600 m. Rare and little known.

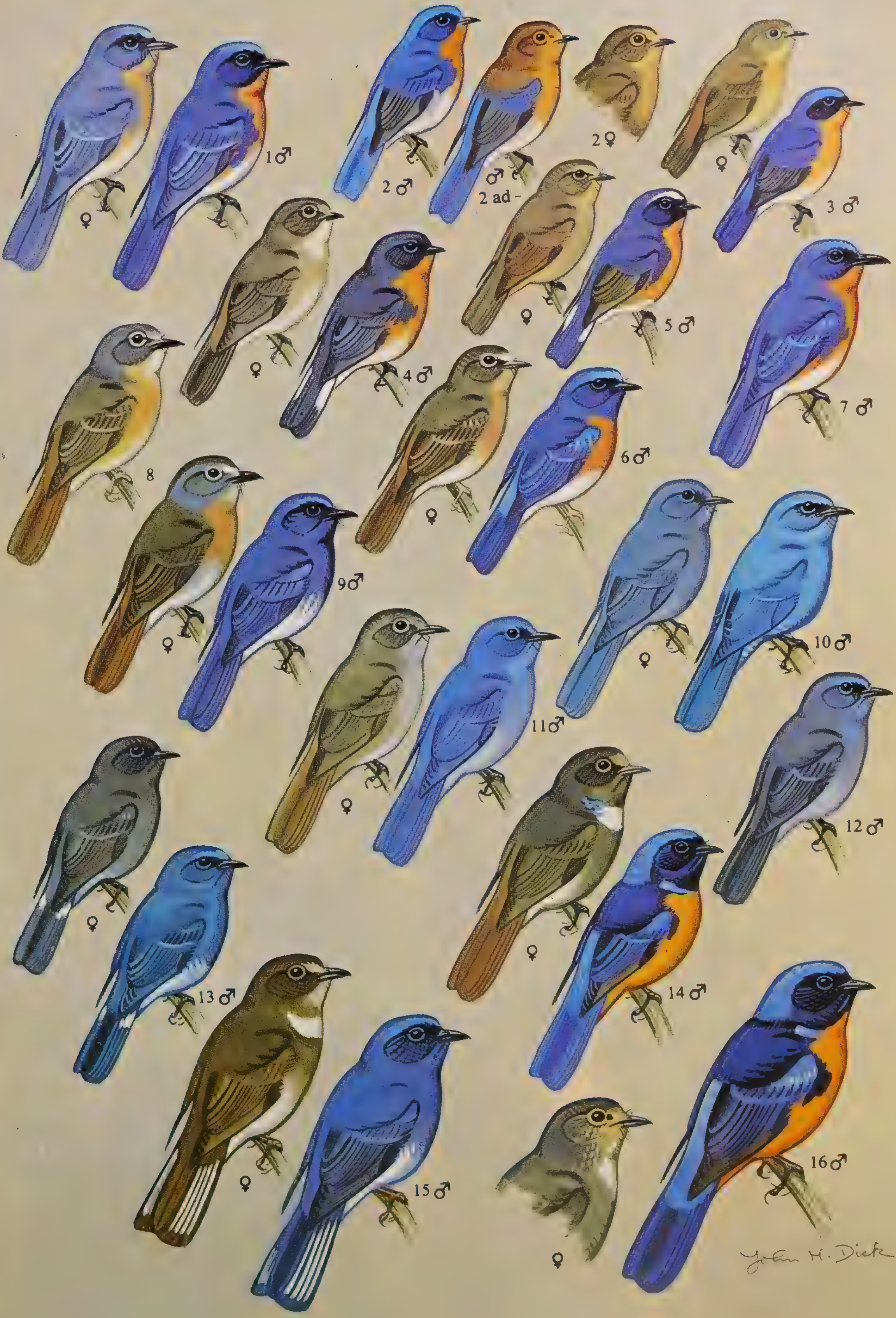
1442. **(1)** TICKELL'S BLUE FLYCATCHER *Muscicapa tickelliae* R Sparrow – : 14 cm. Moist-deciduous or evergreen biotope: scrub and bamboo jungle, groves and wooded gardens. Peninsular India, excepting NW arid parts; Bangladesh; Sri Lanka.

1444. **(12)** DUSKY BLUE FLYCATCHER *Muscicapa sordida* R (endemic) Sparrow – : 14 cm. Forest and well-wooded ravines. Sri Lanka.

1445. **(10)** VERDITER FLYCATCHER *Muscicapa thalassina* R Sparrow ±: 15 cm. Deciduous, evergreen or light conifer forest. *Summer*: Himalayas; NE hill states; c. 1200-3000 m. *Winter*: Subcontinent.

1446. **(13)** NILGIRI FLYCATCHER *Muscicapa albicaudata* R Sparrow ±: 15 cm. Sholas, forest glades, coffee and cardamom plantations, etc. Southern W Ghats complex.

1447. **(3)** PIGMY BLUE FLYCATCHER *Muscicapella hodgsoni* R Sparrow – : 8 cm. Dense, tall forest and secondary scrub at edge of clearings or along hill streams. E Himalayas; NE hill states. Seasonally, foothills to c. 3000 m.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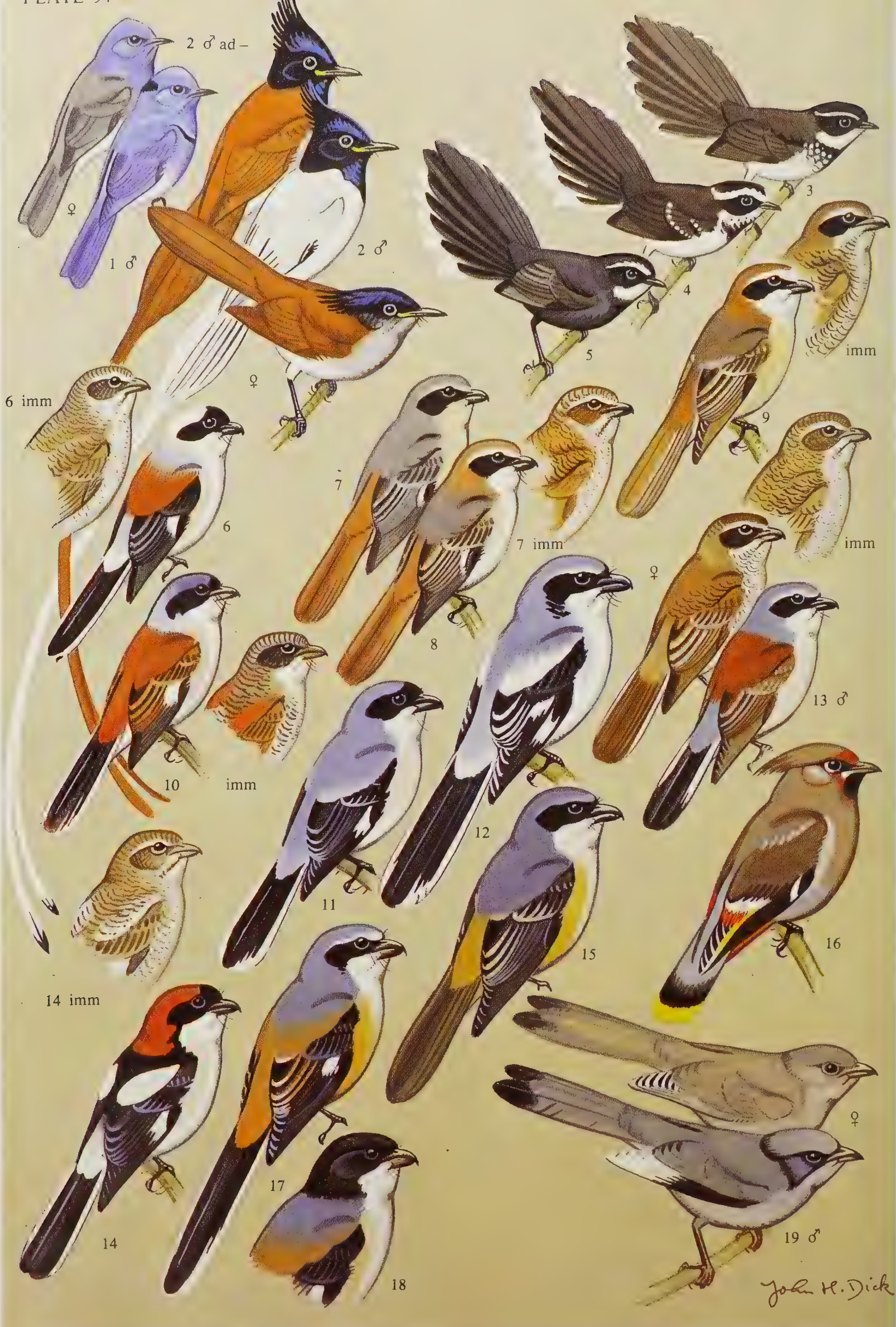
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PLATE 94

933. **(12)** GREY SHRIKE *Lanius excubitor* RM Myna+: 25 cm. Tropical thorn and dry-deciduous biotope. Pakistan from NWFP and Baluchistan east through continental and peninsular India and Bangladesh in appropriate facies.

937. **(11)** LESSER GREY SHRIKE *Lanius minor* V Myna ±: 23 cm. Two records, Baluchistan (Quetta and Chaman).

938. **(10)** BURMESE SHRIKE *Lanius collurioides* R Bulbul+: 23 cm. Evergreen scrub and semi-cultivation. N Cachar; Manipur.

940. **(6)** BAYBACKED SHRIKE *Lanius vittatus* R Bulbul−: 18 cm. Dry-deciduous open thorn scrub jungle, outskirts of cultivation. Subcontinent.

941. **(13)** REDBACKED SHRIKE *Lanius collurio* M Bulbul−: 17 cm. Open scrub jungle and cultivation. Pakistan east to W Rajasthan and N Gujarat.

942. **(8)** Rufous ssp. *phoenicuroides* of 941. *Summer*: N Baluchistan. *Autumn:* passage through Pakistan, east to Haryana, C Rajasthan, Gujarat.

943. **(7)** Pale brown ssp. *isabellinus* of 941. *Winter*: Pakistan and NW India east to Bihar, and south to E Madhya Pradesh, Gujarat and W Maharashtra.

945. **(15)** GREYBACKED or TIBETAN SHRIKE *Lanius tephronotus* R Bulbul+: 25 cm. Bushes, open scrub and cultivation. Himalayas from Baltistan, Ladakh and N Kashmir east. *Winter*: foothills and plains of N and NE India. Seasonally, foothills to c. 4500 m.

946. **(17)** RUFOUSBACKED SHRIKE *Lanius schach* R Bulbul+: 25 cm. Open wooded country and cultivation. Subcontinent. Absent in Andaman and Nicobar Is.

948. **(18)** Blackheaded ssp. *tricolor* of 946. N and NE India.

949. **(9)** BROWN SHRIKE *Lanius cristatus* M Bulbul ±: 19 cm. Dry-deciduous and semi-evergreen scrub and scattered bushes. Locally Subcontinent.

951. **(14)** WOODCHAT SHRIKE *Lanius senator* V? Bulbul−: 17 cm. An unconfirmed record from Baluchistan (Quetta).

1062. **(16)** WAXWING *Bombycilla garrulus* V Bulbul−: 18 cm. Fruiting bushes and trees. Has occurred in Baluchistan (Quetta), NWFP, Kashmir and Nepal.

1063. **(19)** GREY HYPOCOLIUS *Hypocolius ampelinus* V Bulbul+: 25 cm. Semi-desert and open deciduous scrub jungle. Baluchistan, Sind, Kutch and Maharashtra.

1451. **(4)** WHITEBROWED FANTAIL FLYCATCHER *Rhipidura aureola* R Bulbul−: 17 cm. Dry open country, wooded compounds, parkland, scrub and bamboo jungle. Subcontinent excepting NE parts and Andaman and Nicobar Is.

1455. **(5)** WHITETHROATED FANTAIL FLYCATCHER *Rhipidura albicollis* R Bulbul−: 17 cm. Shady places in forest, well-wooded country, gardens, groves and secondary scrub. Himalayas; NE hill states (up to c. 2700 m); peninsular India.

1458. **(3)** Whitespotted ssp. *albogularis* of 1455. Most of peninsular India south of the Vindhya Range.

1461. **(2)** PARADISE FLYCATCHER *Terpsiphone paradisi* RM Bulbul ±: 20 cm. Male (with tail streamers) overall 50 cm. Well-watered and shady forest, plantations, groves and gardens. Subcontinent.

1465. **(1)** BLACKNAPED FLYCATCHER *Hypothymis azurea* R Sparrow ±: 16 cm. Evergreen and moist-deciduous biotope: forest and plantations, mixed bamboo jungle, etc. E Himalayan foothills; continental and peninsular India; Andaman and Nicobar Is.; Bangladesh; Sri Lanka.

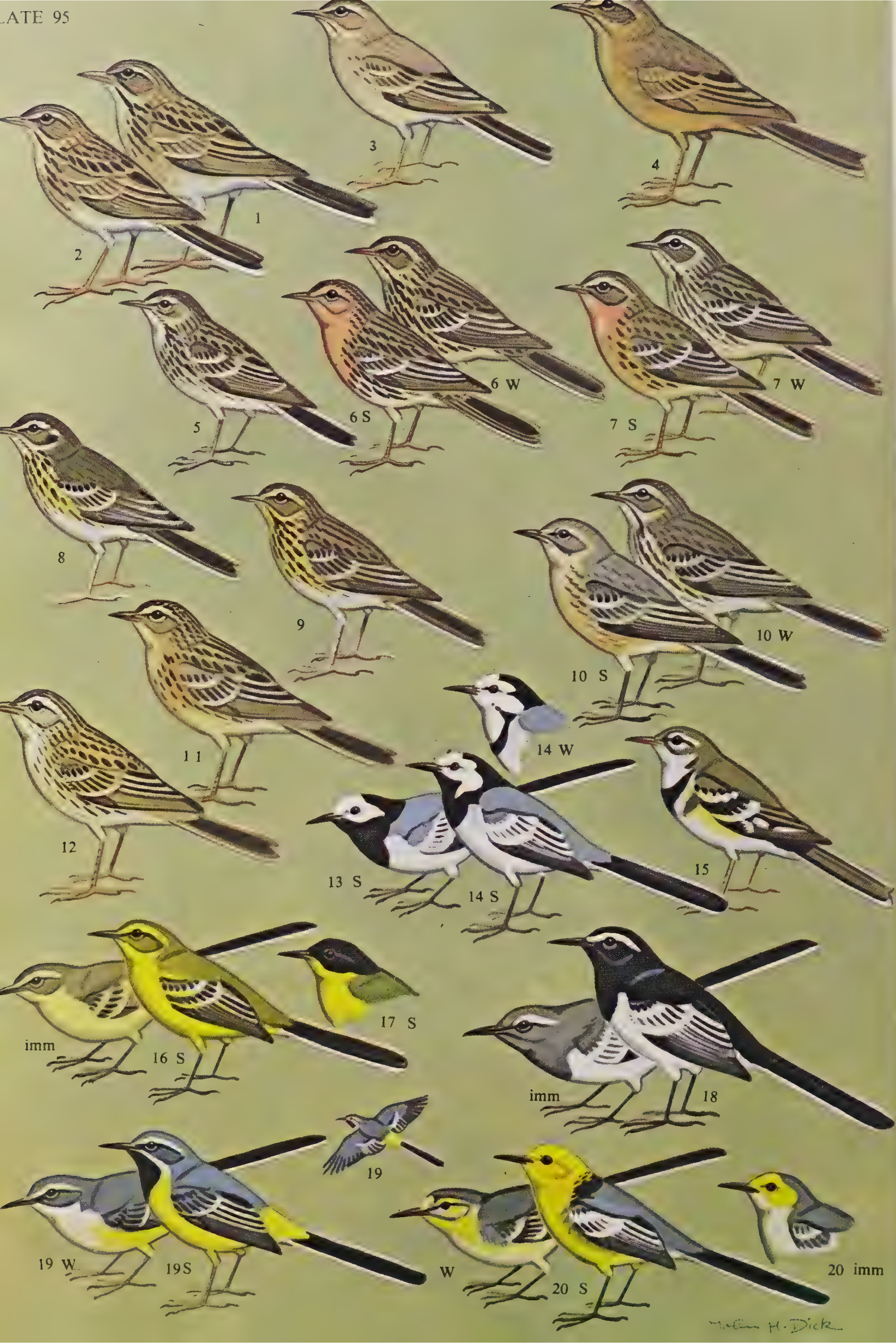
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PLATE 95

1852. **(8)** INDIAN TREE PIPIT *Anthus hodgsoni* RM Sparrow ±: 15 cm. Grassy slopes, rocky ground and glades in open forest. *Summer*: Subalpine Himalayas from c. 2700 m to timber-line. *Winter*: Continental and peninsular India; Bangladesh.

1854. **(9)** TREE PIPIT *Anthus trivialis* M Sparrow ±: 15 cm. Grassy slopes; cultivation, stubble fields, groves and light forest. *Summer*: NW Himalayas from c. 2700 m to timber-line. *Winter*: Most of continental and peninsular India from the Himalayan foothills south.

1856. **(5)** MEADOW PIPIT *Anthus pratensis* M Sparrow ±: 15 cm. Grassy meadows and pastureland. NWFP.

1857. **(1)** Migrant ssp. *richardi* of 1858. Sparrow+: 17 cm. Cultivation, bare hillsides and sandy areas. E and NE India. Patchily throughout Subcontinent; also Andaman Is.

1858. **(2)** PADDYFIELD PIPIT *Anthus novaeseelandiae* R Sparrow ±: 15 cm. Grassland, stubble fields, fallows and marshy ground. Subcontinent; Sri Lanka.

1861. **(3)** TAWNY PIPIT *Anthus campestris* M Sparrow ±: 15 cm. Sparsely shrubbed semi-desert, fallow land, pastures, ploughed fields. Subcontinent.

1864. **(6)** REDTHROATED PIPIT *Anthus cervinus* M Sparrow ±: 15 cm. Grassy wet ground, and stubble fields. Himalayan foothills; continental and peninsular India; Andaman and Nicobar Is.

1865. **(7)** VINACEOUSBREASTED PIPIT *Anthus roseatus* RM Sparrow ±: 15 cm. Alpine meadows and boulder-strewn grassy slopes, marshes, jheels and ricefields. *Summer*: Himalayas from Baltistan and Ladakh east; mostly above timber-line. *Winter*: N Pakistan foothills; continental India; Bangladesh; up to c. 1500 m.

1868. **(4)** BROWN ROCK PIPIT *Anthus similis* RM Bulbul ±: 20 cm. Grassy slopes and plains, sparsely scrubbed country, fallow land, sand dunes, etc. Subcontinent.

1870. **(11)** NILGIRI PIPIT *Anthus nilghiriensis* R Sparrow+: 17 cm. Rolling downs and grassy hilltops, woodland, coffee estates. Southern W Ghats complex, above c. 1000 m.

1871. **(10)** WATER PIPIT or ALPINE PIPIT *Anthus spinoletta* M Sparrow ±: 15 cm. Damp ground, marshes, canals, irrigated ricefields, etc. Most of the Subcontinent.

1873. **(12)** UPLAND PIPIT *Anthus sylvanus* R Bulbul−: 17 cm. Steep grassy slopes, abandoned terrace cultivation and open pine forest. W Himalayas east through Nepal; between c. 900 and 3000 m.

1874. **(15)** FOREST WAGTAIL *Motacilla indica* RM Sparrow+: 17 cm. Evergreen or moist-deciduous biotope: forest, coffee plantations, mixed bamboo jungle, etc. *Breeding*: N Cachar district, Assam. *Winter*: NE India; E and W Ghats complexes; Sri Lanka.

1876. **(16)** YELLOW WAGTAIL *Motacilla flava* RM Sparrow ±, with longer tail: 17 cm. Pastureland, wet paddy stubbles, etc. Subcontinent.

1878. **(17)** Blackheaded ssp. *melanogrisea* of 1876. Subcontinent (winter).

1883. **(20)** YELLOWHEADED WAGTAIL *Motacilla citreola* M Sparrow ±, with longer tail: 17 cm. Marshes, irrigated ricefields, etc. *Summer*: N Baluchistan; NWFP, east through Baltistan, Gilgit, Kashmir, Ladakh, Lahul, Spiti; between c. 1500 and 4600 m. *Winter*: Subcontinent. Absent in Andaman and Nicobar Is.

1884. **(19)** GREY WAGTAIL *Motacilla cinerea* M Sparrow ±, with longer tail: 17 cm. Along clear mountain streams with rocky banks and boulders. *Summer*: From N Baluchistan to Chitral, east through Baltistan, Gilgit, Ladakh and Kashmir to Nepal; between c. 1800 and 4300 m. *Winter*: Himalayan foothills, south through the Subcontinent.

1885. **(14)** Ssp. *dukhunensis*
1886. **(13)** Ssp. *personata*
PIED, or WHITE, WAGTAIL *Motacilla alba* RM Bulbul−: 18 cm. Open country in the vicinity of watercourses, reservoirs, rice and cultivation, lawns and playing fields. Subcontinent. Vagrant or absent in Sri Lanka.

1891. **(18)** LARGE PIED WAGTAIL *Motacilla maderaspatensis* R Bulbul ±: 21 cm. Watercourses, rocky streams, reservoirs and pools. Continental and peninsular India.

PLATE 96

984. **(2)** SPOTTEDWINGED STARE *Saroglossa spiloptera* M? Bulbul ±: 19 cm. Open tall forest. *Summer:* Himalayas. *Winter:* Assam south to Bangladesh (Dhaka, Chittagong).

986. **(1)** GLOSSY STARE or STARLING *Aplonis panayensis* R? Myna ±: 22 cm. Forest and coconut groves. Andaman and Nicobar Is.; Meghalaya and Assam south through Bangladesh (status uncertain).

987. **(3)** GREYHEADED MYNA *Sturnus malabaricus* R Myna –: 21 cm. Thinly wooded country and secondary jungle. Continental and peninsular India.

988. **(4)** Whiteheaded ssp. *blythi* of 987. SW India from Belgaum south.

991. **(8)** WHITEHEADED MYNA *Sturnus erythropygius* R Myna –: 21 cm. Forest and secondary jungle. Andaman and Nicobar Is.

993. **(7)** CEYLON WHITEHEADED MYNA or STARLING *Sturnus senex* R (endemic) Myna –: 22 cm. Tall forest edges and clearings. SW Sri Lanka.

994. **(5)** BLACKHEADED, or BRAHMINY, MYNA *Sturnus pagodarum* R Myna –: 22 cm. Open deciduous forest and scrub jungle, and near cultivation and habitations. Subcontinent; Sri Lanka.

995. **(6)** DAURIAN MYNA *Sturnus sturninus* V Myna –: 19 cm. Isolated specimens from Chitral, Andaman (on board ship), and Nicobar Is. (Camorta).

996. **(10)** ROSY PASTOR *Sturnus roseus* M Myna ±: 23 cm. Open cultivation, grassland and semi-desert. Continental and peninsular India; Sri Lanka.

997. **(9)** STARLING *Sturnus vulgaris* M Bulbul ±: 19-20 cm. Cultivations, orchards, marshes and vicinity of habitations. *Summer:* NWFP east through Kashmir. *Winter:* Pakistan and N India east to Bangladesh, south to Gujarat and Madhya Pradesh.

1002. **(11)** PIED MYNA *Sturnus contra* R Myna ±: 23 cm. Open country and cultivation. From Haryana east to NE India and Bangladesh; Himalayan foothills, south through Madhya Pradesh to the Deccan.

1005. **(13)** CHINESE or GREYBACKED MYNA *Sturnus sinensis* V Bulbul ±: 20 cm. Manipur (once).

1006. **(12)** COMMON MYNA *Acridotheres tristis* R Pigeon –: 23 cm. Neighbourhood of homesteads, villages and cities. Subcontinent. Introduced in the Andaman, Nicobar, Maldive and Lakshadweep is.

1008. **(14)** BANK MYNA *Acridotheres ginginianus* R Myna –: 21 cm. Neighbourhood of human habitations. Pakistan; continental and peninsular India south to Maharashtra, Madhya Pradesh and Orissa.

1009. **(15)** JUNGLE MYNA *Acridotheres fuscus* R Myna ±: 23 cm. Well-wooded country in the vicinity of cultivation and villages. Himalayas; NE hill states; Bangladesh (Chittagong). Patchily in continental and peninsular India.

1012. **(18)** ORANGEBILLED JUNGLE MYNA *Acridotheres javanicus* R Myna ±: 23 cm. Semi-cultivation, long grass and near villages. Nagaland south through Manipur and Mizoram to the Chittagong hill tracts; up to c. 1300 m.

1013. **(17)** COLLARED MYNA *Acridotheres albocinctus* R Myna ±: 23 cm. Meadows, elephant grass and vicinity of cultivation and villages. Manipur valley.

1014. **(16)** GOLDCRESTED MYNA *Mino coronatus* R Myna ±: 21 cm. Moist deciduous and semi-evergreen open forest and cultivation clearings. Manipur and Assam.

1015. **(19)** HILL MYNA *Gracula religiosa* R Myna ±: 25-29 cm. Evergreen and semi-evergreen forest and vicinity of cultivation. Himalayan foothills from Kumaon east; NE hill states; Bangladesh (Chittagong); E and W Ghat complexes south of c. 17°N; Sri Lanka; Andaman and Nicobar Is.

1019. **(20)** CEYLON HILL MYNA *Gracula ptilogenys* R (endemic) Myna +: 25 cm. High trees in forest and cultivation. Sri Lanka.

PLATE 96

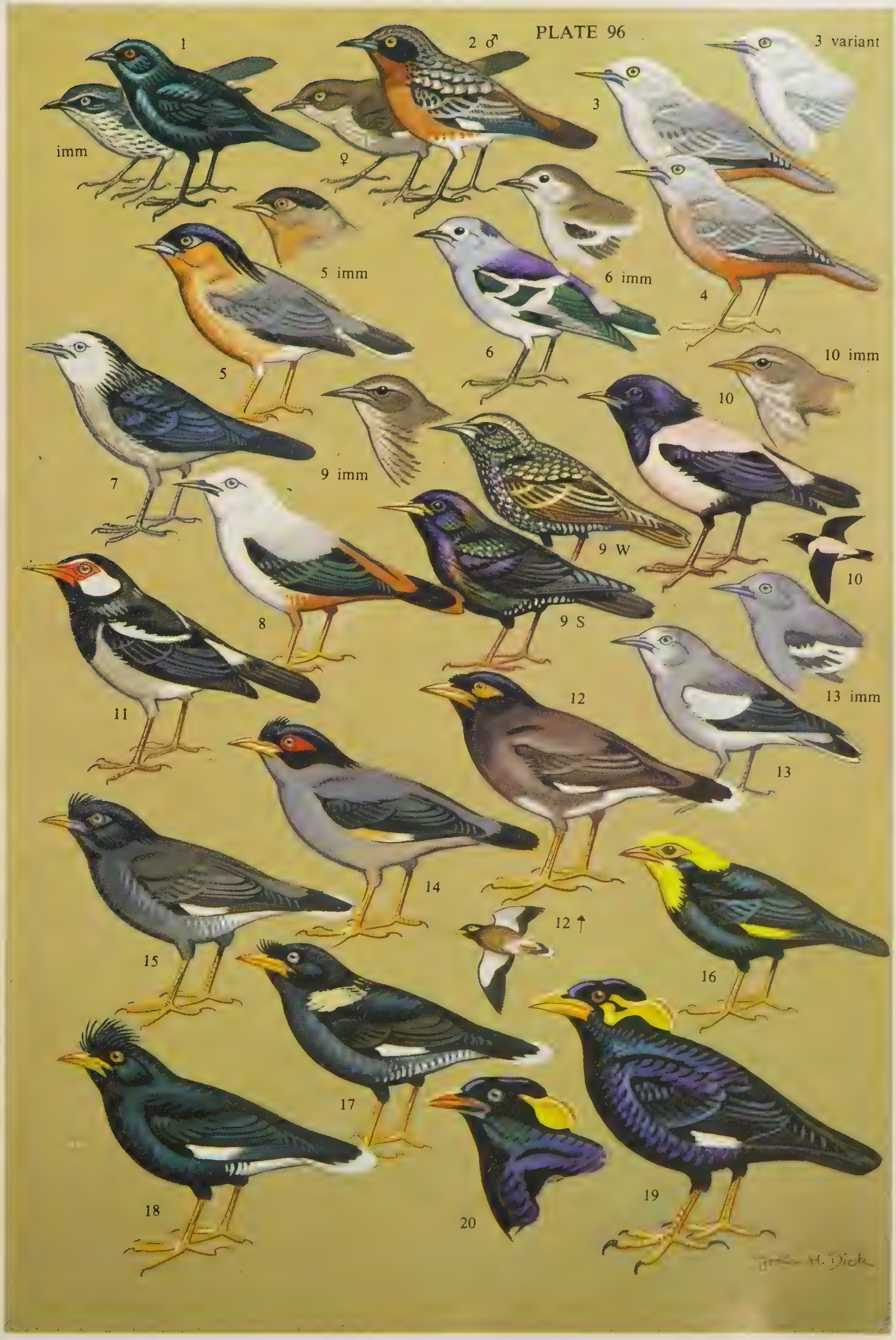
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PLATE 97

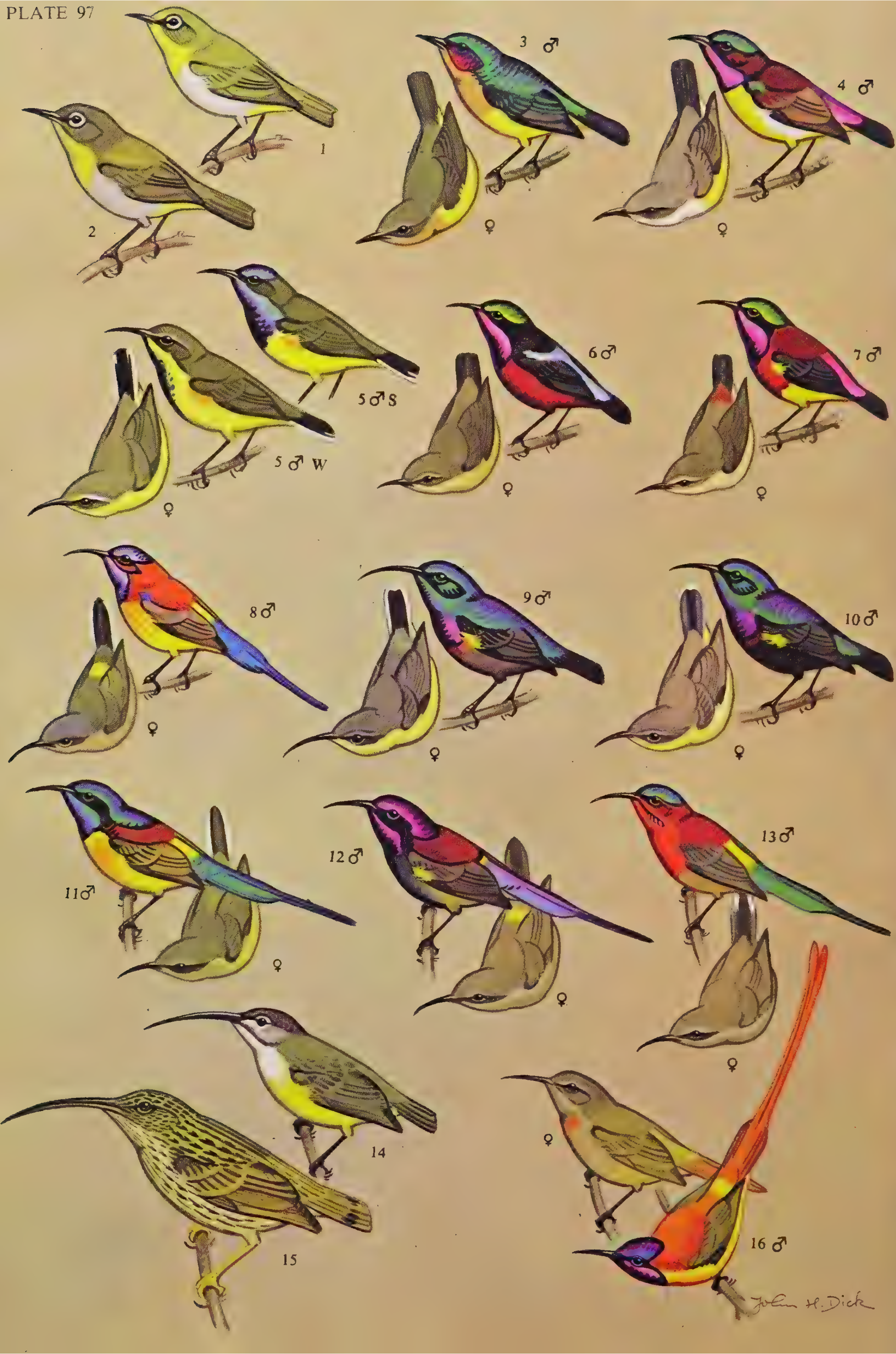
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PLATE 97

1906. **(3)** RUBYCHEEK *Anthreptes singalensis* R Sparrow – : 10 cm. Dense evergreen forest, open scrub jungle. E Himalayas; NE hill states. Foothills to c. 700 m.

1907, 1908. **(4)** PURPLERUMPED SUNBIRD *Nectarinia zeylonica* R Sparrow – : 10 cm. Scrub, light secondary jungle, dry cultivated country, gardens. S Bengal; Bangladesh; peninsular India; Sri Lanka.

1909. **(7)** SMALL SUNBIRD *Nectarinia minima* R Sparrow – : 8 cm. Forest, sholas, gardens, flowering trees and bushes in hilly evergreen biotope. W Ghats complex from about Nasik south; normally between 300 and 2000 m.

1910. **(6)** VAN HASSELT'S SUNBIRD *Nectarinia sperata* R Sparrow – : 9 cm. Forest, gardens, and dense cover in swampy land. Assam; NE hill states; Bangladesh.

1911, 1912. **(9)** LOTEN'S SUNBIRD *Nectarinia lotenia* R Sparrow – : 13 cm. Moist-deciduous biotope: well-wooded, open country, gardens and cultivation. Southern peninsular India; Sri Lanka.

1913 to 1915. **(5)** OLIVEBACKED SUNBIRD *Nectarinia jugularis* R Sparrow—: 10 cm. Forest, scrub and mangroves. Andaman and Nicobar Is.

1917. **(10)** PURPLE SUNBIRD *Nectarinia asiatica* R Sparrow – : 10 cm. Light deciduous or dry thorn forest, cultivation, gardens and compounds. Subcontinent; Sri Lanka. Absent in Andaman and Nicobar Is.

1919. **(8)** MRS GOULD'S SUNBIRD *Aethopyga gouldiae* R Sparrow – : ♂ 15 cm; ♀ 10 cm. Evergreen and moist-decidous biotope: forest and scrub jungle. Himalayas; NE hill states; Bangladesh (Chittagong region). Seasonally, foothills to c. 3600 m.

1923. **(11)** NEPAL YELLOWBACKED SUNBIRD *Aethopyga nipalensis* R Sparrow – : ♂ 15 cm; ♀ 10 cm. Heavy forest of oak and rhododendron, scrub jungle and gardens. Himalayas from Kumaon east; NE hill states; Bangladesh (Chittagong hill tracts). Seasonally, c. 300-3600 m.

1925. **(12)** BLACKBREASTED SUNBIRD *Aethopyga saturata* R Sparrow – : ♂ 15 cm; ♀ 10 cm. Evergreen and moist-deciduous biotope: dense scrub, secondary growth or open pastureland with scattered bushes. Himalayas; NE hill states; Bangladesh. Seasonally, foothills to c. 2000 m.

1927 to 1929a. **(13)** YELLOWBACKED SUNBIRD *Aethopyga siparaja* R Sparrow—: ♂ 15 cm; ♀ 10 cm. Dense evergreen and moist-deciduous open forest and scrub jungle, gardens, orchards, groves, etc. Himalayan foothills from Kangra east to Sikkim; Bangladesh; continental and NE India; W Ghats complex from the Narbada river south; Nicobar Is.

1930. **(16)** FIRETAILED SUNBIRD *Aethopyga ignicauda* R Sparrow – : ♂ 15 cm; ♀ 10 cm. Open coniferous forest with dense growth of dwarf rhododendron and juniper, etc. Himalayas from Garhwal east; NE hill states; Bangladesh. Seasonally, c. 1200-4000 m.

1931. **(14)** LITTLE SPIDERHUNTER *Arachnothera longirostris* R Sparrow – : 14 cm. Moist-deciduous and evergreen forest, secondary growth, heavy jungle and sholas. E Himalayan foothills; NE hill states; Bangladesh. Patchily also in W and E Ghat complexes. Up to c. 1800 m.

1932. **(15)** STREAKED SPIDERHUNTER *Arachnothera magna* R Sparrow + : 17 cm. Evergreen biotope: dense forest and abandoned cultivation clearings overgrown by wild banana stands. E Himalayas; NE hill states; Bangladesh; up to c. 1500 m.

1933. **(1)** WHITE-EYE *Zosterops palpebrosa* R Sparrow – : 10 cm. Forest, groves, gardens, orchards and mangrove. Subcontinent excepting desert parts; Nicobar Is.

1937. **(2)** CEYLON WHITE-EYE *Zosterops ceylonensis* R (endemic) Sparrow – : 11 cm. Forest, tea plantations, gardens, etc. Sri Lanka.

PLATE 98

1892. **(1)** THICKBILLED FLOWERPECKER *Dicaeum agile* R Sparrow –: 9 cm. Dry to moist-deciduous or semi-evergreen biotope: on flowering or fruiting trees and shrubs in forest and cultivated country. Subcontinent; Sri Lanka.

1895. **(5)** YELLOWVENTED FLOWERPECKER *Dicaeum chrysorrheum* R Sparrow –: 9 cm. Open jungle, forest edges and orange orchards. E Himalayas; NE hill states; Bangladesh (Chittagong hill tracts). Foothills to c. 2000 m.

1896. **(2)** YELLOWBELLIED FLOWERPECKER *Dicaeum malanoxanthum* R Sparrow –: 12 cm. Tall trees in open forest and forest clearings. Himalayas from Kumaon east; NE hill states. Seasonally, c. 1400-3600 m.

1897. **(6)** LEGGE'S FLOWERPECKER *Dicaeum vincens* R (endemic) Sparrow –: 9 cm. Tall trees and climbers in rain forest. Sri Lanka.

1898. **(7)** ORANGEBELLIED FLOWERPECKER *Dicaeum trigonostigma* R Sparrow –: 9 cm. Glades and margins of evergreen and tidal forest. Submontane tracts of Arunachal Pradesh and Assam; Sundarbans.

1899. **(3)** TICKELL'S FLOWERPECKER *Dicaeum erythrorhynchos* R Sparrow –: 8 cm. Moist-deciduous biotope: forest plantations, groves, orchards and scrub jungle. Subcontinent excepting desert parts; Sri Lanka.

1902. **(4)** PLAINCOLOURED FLOWERPECKER *Dicaeum concolor* R Sparrow –: 8 cm. Deciduous and mixed deciduous-evergreen forest and groves. E Himalayas; NE hill states; up to c. 1800 m; W Ghats complex from Mahabaleshwar south; Andaman Is.

1904. **(10)** SCARLETBACKED FLOWERPECKER *Dicaeum cruentatum* R Sparrow –: 7 cm. Open forest groves and orchards. E Himalayas, south through Assam, Bangladesh and Bengal; up to c. 1400 m.

1905. **(8)** FIREBREASTED FLOWERPECKER *Dicaeum ignipectus* R Sparrow –: 7 cm. Tall forest, secondary growth and orchards, etc. Himalayas; NE hill states. Seasonally, c. 600-2700 m.

1964. **(9)** RED MUNIA, or AVADAVAT *Estrilda amandava* R Sparrow –: 10 cm. Sub-Himalayan terai and duars; swampy reed-beds and tall grassland, sugarcane fields, gardens and around villages. Subcontinent.

1965. **(13)** GREEN MUNIA *Estrilda formosa* R Sparrow –: 10 cm. Grass and low bushes, sugarcane fields and boulder-strewn scrub jungle. Mainly C India.

1966. **(17)** WHITETHROATED MUNIA *Lonchura malabarica* R Sparrow –: 10 cm. Cultivation, grassland, sparsely scrubbed country and light secondary jungle. Foothills and plains, Pakistan; continental and peninsular India; Sri Lanka.

1968. **(19)** WHITEBACKED MUNIA *Lonchura striata* R Sparrow –: 10 cm. Open country, light scrub jungle and secondary growth. Himalayan foothills from Garhwal east; continental and peninsular India; Madhya Pradesh; Sri Lanka; Andaman and Nicobar Is.

1971. **(15)** Ssp. *jerdoni* of 1973. India.

1973. **(16)** RUFOUSBELLIED MUNIA *Lonchura kelaarti* R Sparrow –: 10 cm. Scrub, grassland, fallow fields in forest clearings, cultivation and near settlements. Southern parts of E and W Ghat complexes; Sri Lanka.

1974. **(14)** SPOTTED MUNIA *Lonchura punctulata* R Sparrow –: 10 cm. Open woodland, bush-clad hillsides, grassland, gardens and cultivation. Subcontinent; Sri Lanka.

1977. **(11)** NE ssp. *atricapilla*
1978. **(12)** Peninsular ssp. *malacca* BLACKHEADED MUNIA *Lonchura malacca* R Sparrow –: 10 cm. Cultivation, tall grass and swampy ground. N, NE and peninsular India; Bangladesh; Sri Lanka.

1978a. **(18)** JAVA SPARROW *Padda oryzivora* R (introduced). Sparrow ±: 15 cm. Paddy fields, gardens and reed-beds. Columbo; Calcutta; Madras.

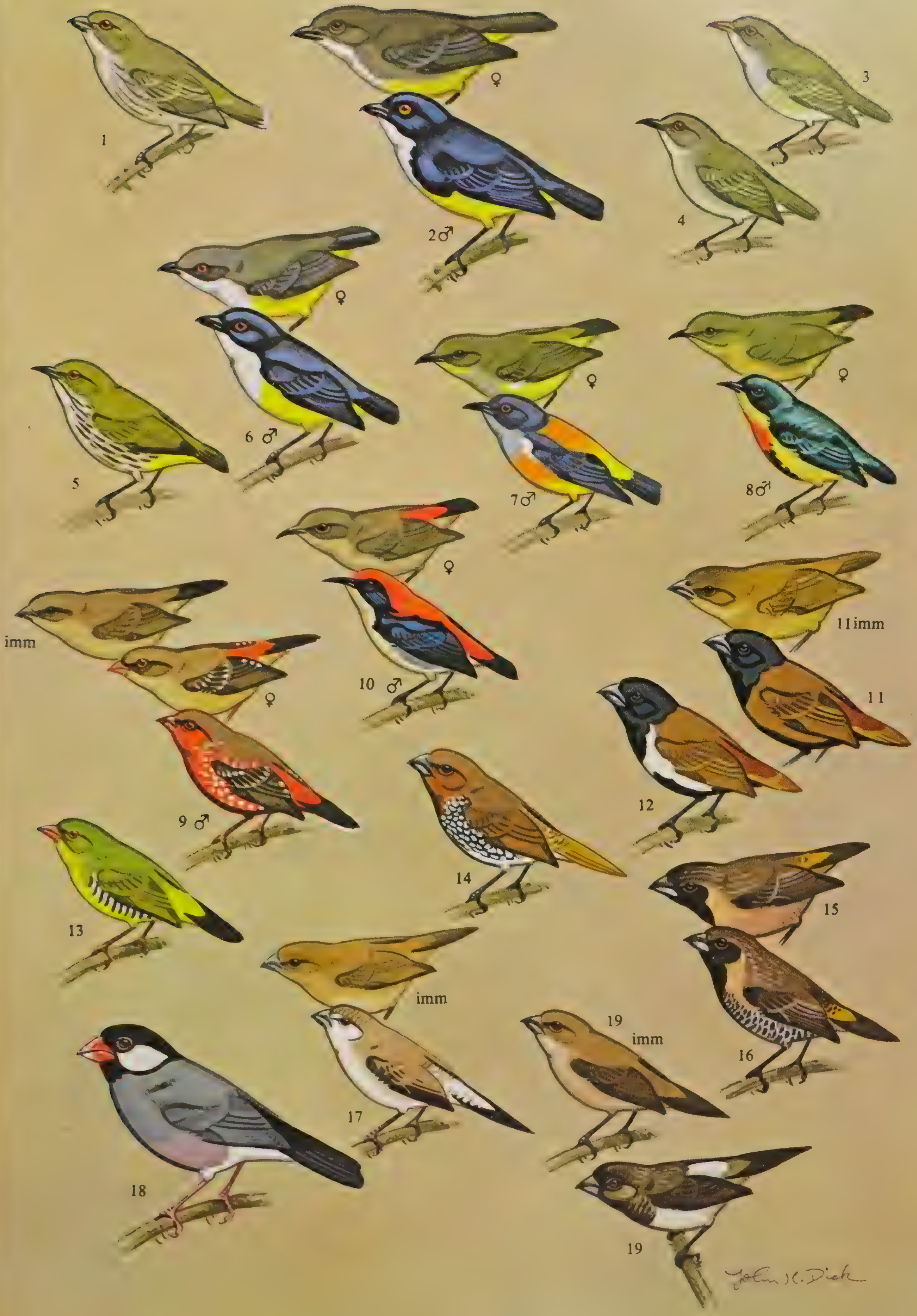
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PLATE 99

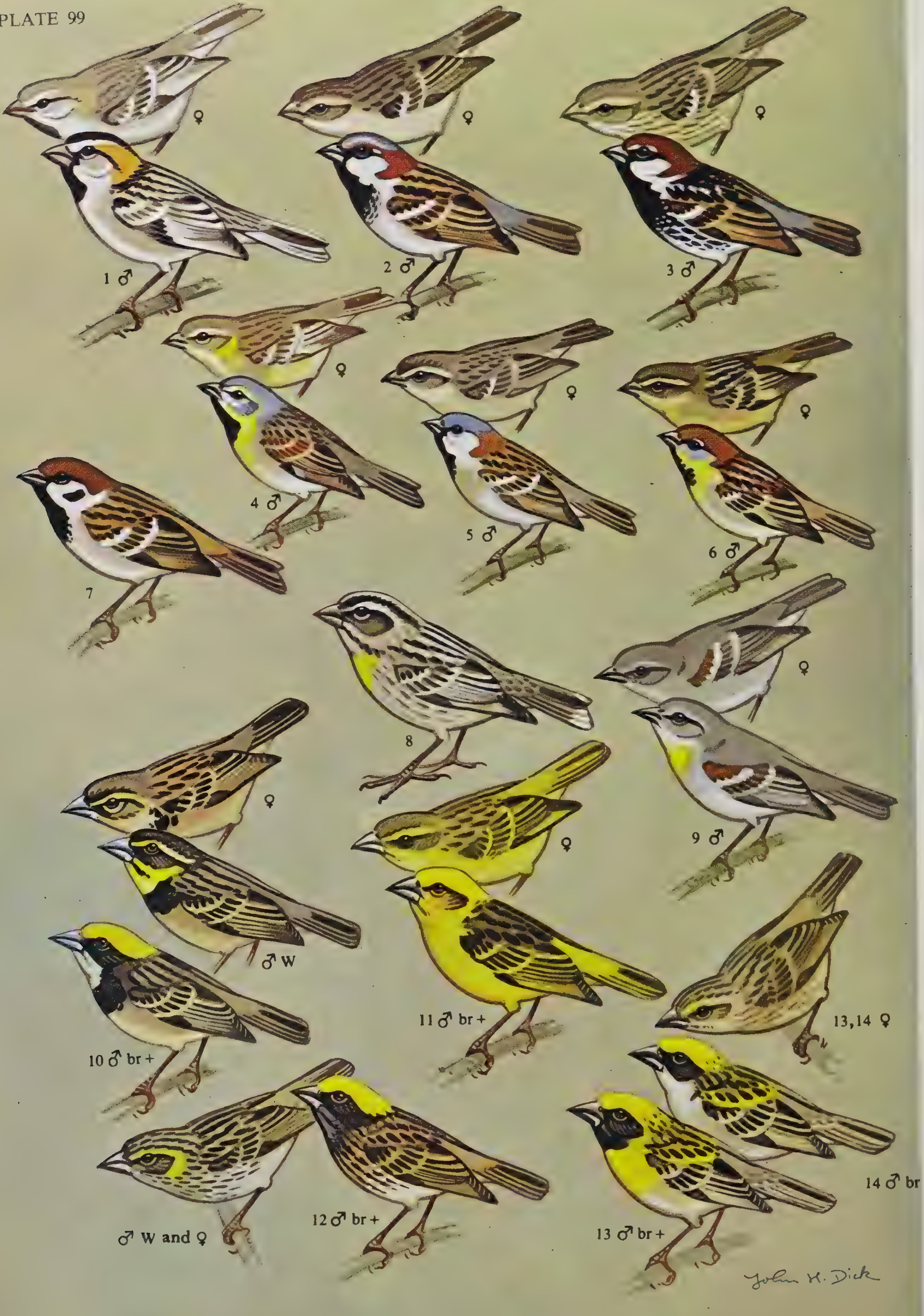
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PLATE 99

1938. **(2)** HOUSE SPARROW *Passer domesticus* R Bulbul – : 15 cm. A ubiquitous commensal of man in cities, suburbs, villages, etc. Subcontinent. Absent in Nicobar Is.

1940. **(3)** SPANISH SPARROW *Passer hispaniolensis* M Bulbul – : 15 cm. Cultivation and semi-desert. Plains of NW Pakistan and NW India.

1942. **(7)** TREE SPARROW *Passer montanus* R Bulbul – : 15 cm. Villages and fields, near human settlement. N Baluchistan; Himalayas; NE hill states; Bangladesh. Foothills to c. 2700 m.

1945. **(5)** SIND JUNGLE SPARROW *Passer pyrrhonotus* R Sparrow – : 12 cm. Mixed tamarisk, acacia and grass jungle along rivers and canals, and around jheels and marshes. Flood plains of the Indus in Punjab and Sind.

1946. **(6)** CINNAMON TREE SPARROW *Passer rutilans* R Bulbul – : 15 cm. Light forest of oak, rhododendron, etc., and terraced cultivation near villages. Himalayas; NE hill states. Seasonally, foothills to c. 2400 m.

1947a. **(4)** SCRUB SPARROW *Passer moabiticus* M Sparrow – : 12 cm. Scrub of *Prosopis, Rubus, Tamarix,* etc. N Baluchistan.

1949. **(9)** YELLOWTHROATED SPARROW *Petronia xanthocollis* R Sparrow – : 14 cm. Dry-deciduous forest, scrub, thorn jungle, groves, cultivation, and oases with date palms. Subcontinent.

1950. **(8)** ROCK SPARROW *Petronia petronia* M Sparrow + : 17 cm. Stony or rocky ground. Gilgit, NWFP.

1957. **(13)** BAYA *Ploceus philippinus* R Sparrow ± : 15 cm. Open cultivation, grassland and secondary scrub dotted with acacias and palm trees, etc. Subcontinent; Sri Lanka.

1959. **(14)** Palethroated eastern ssp. *burmanicus* of 1957. E Bihar, Bengal, Bhutan and Bangladesh.

1960. **(11)** FINN'S BAYA *Ploceus megarhynchus* R Sparrow + : 16 cm. Sub-Himalayan terai country with marshes, sarpat and *Saccharum* grass sparsely dotted with isolated trees. Kumaon terai (below Naini Tal) east to Bengal and Assam.

1961. **(10)** BLACKTHROATED WEAVER BIRD *Ploceus benghalensis* R Sparrow ± : 15 cm. Swampy reed-beds in cultivated lowlands. Chiefly N and NE and continental India; Bangladesh.

1962. **(12)** STREAKED WEAVER BIRD *Ploceus manyar* R Sparrow ± : 15 cm. Swampy reed-beds in cultivated lowland. Pakistan; N and NE India; capriciously in the Peninsula; Sri Lanka.

EL. **(1)** SAXAUL SPARROW *Passer ammodendri* C Asia, Mongolia.

PLATE 100

1777 to 1779. **(1)** ALPINE ACCENTOR *Prunella collaris* R Sparrow+: 17 cm. Stony slopes, cliffs and moraines. Himalayas, seasonally c. 1800-5500 m.

1780. **(5)** ALTAI ACCENTOR *Prunella himalayana* M Sparrow ±: 15 cm. Bare rocky hillsides. Himalayas, c. 2000-4200 m.

1781. **(3)** ROBIN ACCENTOR *Prunella rubeculoides* R Sparrow+ 17 cm. Dwarf willows and furze patches near streams, tundra-like vegetation around lakes. Tibetan facies of Himalayas from Baltistan, Astor and Ladakh. Seasonally, c. 2500-5300 m.

1783. **(2)** RUFOUSBREASTED ACCENTOR *Prunella strophiata* R Sparrow ±: 15 cm. Conifer, oak or birch forest and scrub; boulder-strewn alpine meadows. Himalayas, seasonally c. 1200-5000 m.

1784. **(9)** BROWN ACCENTOR *Prunella fulvescens* R Sparrow+: 15 cm. *Caragana* furze bushes on mountain slopes, other bushes in dry facies. *Summer:* Hunza, Astor, Baltistan and Ladakh to Rupshu; c. 3300-5100 m. *Winter:* Lahul, Chitral and Quetta, Nepal and Sikkim.

1785a. **(7)** Ssp. *ocularis* of 1784. V Chaman, Baluchistan (once).

1787. **(6)** BLACKTHROATED ACCENTOR *Prunella atrogularis* M Sparrow ±: 15 cm. Scrub jungle on hillsides, tea gardens, orchards, and bushes near cultivation. N Baluchistan, NW Pakistan and east along Himalayan foothills to NW Nepal.

1787a. **(8)** SIBERIAN ACCENTOR *Prunella montanella* V Sparrow ±: 15 cm. Bushes and forest edges, near streams. Ladakh (once).

1788. **(4)** MAROONBACKED ACCENTOR *Prunella immaculata* R Sparrow ±: 15 cm. Humid, mossy, conifer and rhododendron forest; secondary jungle, forest margins, etc. (winter). E. Himalayas, seasonally c. 2100-4200 m.

1951. **(13)** SNOW FINCH *Montifringilla nivalis* Status? Sparrow+ : 17 cm. Occurs in Afghanistan, only in the Hindu Kush range. May extend to the adjacent Safed Koh.

1952. **(12)** TIBET SNOW FINCH *Montifringilla adamsi* R Sparrow+: 17 cm. Stony plateaux, boulder-strewn hillsides and neighbourhood of upland villages. *Breeding:* Ladakh, Spiti, Nepal and N Sikkim; c. 3600-4200 m. *Winter:* Kulu, upper Sutlej valley.

1953. **(14)** MANDELLI'S SNOW FINCH *Montifringilla taczanowskii* M Sparrow+ 17 cm. Tibetan steppe facies. N Sikkim; possibly also Ladakh.

1954. **(16)** REDNECKED SNOW FINCH *Montifringilla ruficollis* M Sparrow ±: 15 cm. Open gravel plains, grassy plateaux and banks of meandering streams. N Sikkim; Darjeeling (once).

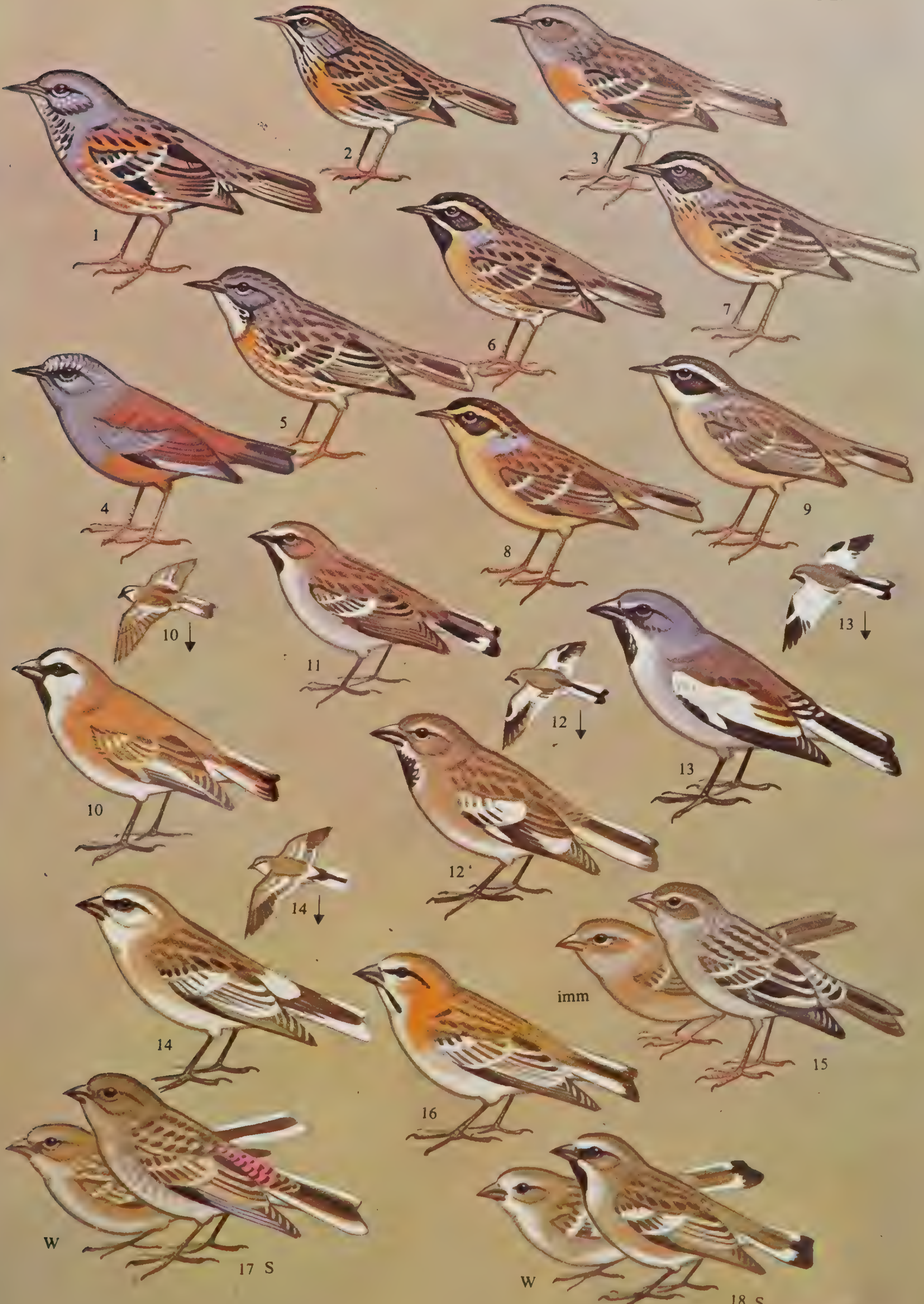
1955. **(10)** BLANFORD'S SNOW FINCH *Montifringilla blanfordi* M Sparrow ±: 15 cm. Tibetan steppe country and cultivation near upland villages. N Sikkim; presumably also Ladakh.

1956. **(11)** PERE DAVID'S SNOW FINCH *Montifringilla davidiana* V Sparrow+ :15 cm. Open desert in high Tibetan facies. N Sikkim (once).

2000. **(15)** HODGSON'S MOUNTAIN FINCH *Leucosticte nemoricola* R Sparrow ±: 15 cm. Alpine meadows, screes, moraines and dwarf scrub. Also open forested slopes and fallow fields (winter). Himalayas, seasonally c. 1000-4800 m.

2003. **(17)** BRANDT'S MOUNTAIN FINCH *Leucosticte brandti* RM Sparrow+ : 18 cm. Desolate stony hillsides, scree fans, moraines and alpine meadows. From Chitral east along Karakoram and northern Himalayas through Baltistan, Ladakh, Lahul, Spiti, Nepal and Sikkim. Seasonally, c. 3000-5400 m.

EL. **(18)** BARTAILED SNOW FINCH *Montifringilla theresae* Afghanistan, Transcaspia.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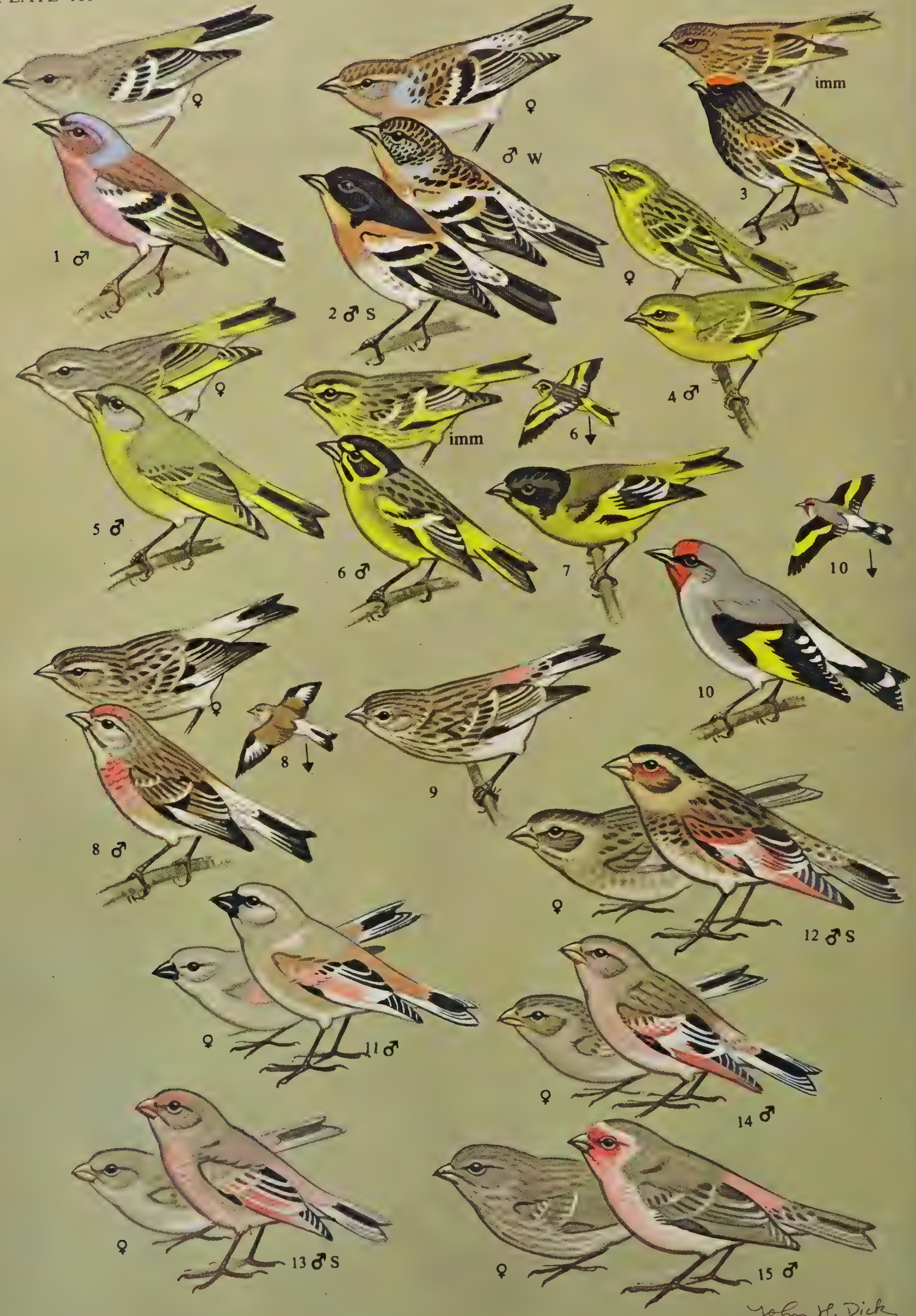
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PLATE 101

1979. **(1)** CHAFFINCH *Fringilla coelebs* M Sparrow ±: 15 cm. Orchards. Kohat, Giligit, NW Nepal.

1980. **(2)** BRAMBLING *Fringilla montifringilla* M Sparrow ±: 15 cm. Gardens and orchards. N Baluchistan, NWFP, Gilgit and Kashmir, straggling to Simla and Mussooree; NW Nepal.

1989. **(10)** GOLDFINCH *Carduelis carduelis* R Sparrow –: 14 cm. Orchards, bare stony hillsides, open conifer forest, fields and scrub. N Baluchistan; W Himalayas. Seasonally foothills to c. 3900 m.

1990. **(6)** HIMALAYAN GREENFINCH *Carduelis spinoides* RM Sparrow –: 14 cm. Open slopes, forest edges, open conifer forest and scrub, cultivation. Himalayas; Nagaland; Manipur. Seasonally, foothills to c. 4400 m.

1993. **(4)** TIBETAN SISKIN *Serinus thibetanus* M Sparrow –: 12 cm. Alders, hemlock, birch and mixed fir forest. E Himalayas, seasonally c. 1000-3800 m.

1994. **(8)** LINNET *Acanthis cannabina* M Sparrow –: 13 cm. Open country and stony slopes up to c. 2400 m. N Baluchistan; Gilgit; Baltistan; Kashmir; NW Nepal.

1995,1996. **(9)** TWITE *Acanthis flavirostris* R Sparrow –: 13 cm. Stony and grassy slopes in arid country, and boulder-strewn alpine meadows. Chitral; Gilgit; Baltistan; Ladakh; Spiti; Nepal; N Sikkim. Seasonally, c. 1500-4800 m.

1998. **(3)** GOLDFRONTED FINCH *Serinus pusillus* R Sparrow –: 12 cm. Rocky hillsides with stunted bushes, near cultivation, shingle screes and dwarf junipers. N Baluchistan; Chitral and east along the Himalayas to Nepal. Seasonally, c. 750-4300 m.

2006. **(13)** TRUMPETER BULLFINCH *Carpodacus githagineus* R Sparrow ±: 15 cm. Bare hills and stony semi-desert. Baluchistan, Sind and NWFP north to Chitral. *Winter*: Makran coast, Rajasthan, Salt Range and Punjab.

2007. **(14)** MONGOLIAN TRUMPETER BULLFINCH *Carpodacus mongolicus* M Sparrow ±: 15 cm. Dry rocky or stony slopes and steep ravines. Chitral, Gilgit, Astor, Baltistan, Ladakh, Baluchistan (Quetta); c. 1500-3000 m.

2008. **(11)** LICHTENSTEIN'S DESERT FINCH *Rhodospiza obsoleta* R Sparrow ±: 15 cm. Orchards, fallow fields, weed-patches, etc. N Baluchistan to Chitral; up to c. 1400 m.

2009. **(12)** CRIMSONWINGED DESERT FINCH *Callacanthis sanguinea* Status? Bulbul –: 18 cm. Semi-desert, rocky and scrub-covered hillsides. Chitral and Ladakh (once each).

EL. **(5)** EUROPEAN GREENFINCH *Carduelis chloris* SW Asia, Afghanistan.

EL. **(7)** BLACKHEADED GREENFINCH *Carduelis ambigua* SE Tibet, N Burma.

EL. **(15)** SINAI ROSEFINCH *Carpodacus synoicus* NE Afghanistan.

PLATE 102

2013. **(3)** COMMON ROSEFINCH, SCARLET GROSBEAK *Carpodacus erythrinus* M Sparrow ±: 15 cm. Willows along streams and river-beds, rocky bush-covered slopes, thorny scrub, etc. *Summer*: N Baluchistan; W Himalayas. *Winter*: Pakistan south to Sind; Himalayan foothills; continental and peninsular India; Bangladesh.

2015. **(2)** NEPAL ROSEFINCH *Carpodacus nipalensis* R Sparrow ±: 15 cm. Forest of oak, rhododendron and silver fir; grassy slopes with stunted bushes and stony pastures. Himalayas, seasonally c. 1200-4400 m.

2016. **(1)** BLANFORD'S ROSEFINCH *Carpodacus rubescens* R Sparrow ±: 15 cm. Conifer or mixed conifer and birch forest. E Himalayas, seasonally c. 1300-3900 m.

2017. **(4)** PINKBROWED ROSEFINCH *Carpodacus rhodochrous* R Sparrow ±: 15 cm. Open fir and birch forest, willow bushes and dwarf juniper; also grassy slopes, gardens and upland villages. Himalayas, seasonally c. 600-4200 m.

2017a. **(7)** VINACEOUS ROSEFINCH *Carpodacus vinaceus* Status? Sparrow –: 13 cm. Dense bushes and clearings in bamboo forest. Himalayas from Naini Tal (Kumaon) to Nepal, where possibly breeding.

2018. **(13)** REDMANTLED ROSEFINCH *Carpodacus rhodochlamys* R Bulbul –: 18 cm. Bushes and shrubs in dry biotope; thorny scrub, gardens and cultivation (winter). N Baluchistan; W Himalayas. Seasonally, foothills to c. 3800 m.

2019. **(8)** SPOTTEDWINGED ROSEFINCH *Carpodacus rhodopeplus* R Sparrow ±: 15 cm. Grassy hillsides with bushes. Himalayas from E Kumaon through Nepal and Sikkim.

2020. **(11)** Ssp. *blythi* of 2021. Himalayas from NWFP east to Garhwal.

2021. **(10)** WHITEBROWED ROSEFINCH *Carpodacus thura* R Sparrow +: 17 cm. Light fir, juniper and rhododendron forest, and dwarf juniper or rhododendron. Himalayas, from Garhwal east; seasonally c. 1800-4200 m.

2023. **(5)** BEAUTIFUL ROSEFINCH *Carpodacus pulcherrimus* R Sparrow ±: 15 cm. Rhododendron and other bushes on steep hillsides in dry biotope. Himalayas from Garhwal east; seasonally c. 2100-4500 m.

2025. **(6)** LARGE ROSEFINCH *Carpodacus edwardsii* R Sparrow +: 17 cm. Rhododendron and silver fir forest; open forest and mountains with scrub (winter). E Himalayas, seasonally c. 2000-3900 m.

2026. **(9)** THREEBANDED ROSEFINCH *Carpodacus trifasciatus* M Bulbul –: 17 cm. Orchards and hedges in cultivated fields. SE Tibet along the Tsangpo; presumably also Arunachal Pradesh.

2027. **(15)** GREAT ROSEFINCH *Carpodacus rubicilla* R Bulbul ±: 19 cm. Boulder-strewn ground with sparse vegetation at the foot of mountains. From Chitral east through Hunza, Gilgit, Ladakh, Lahul, Spiti, Nepal and Sikkim. Seasonally, c. 1500-5000 m.

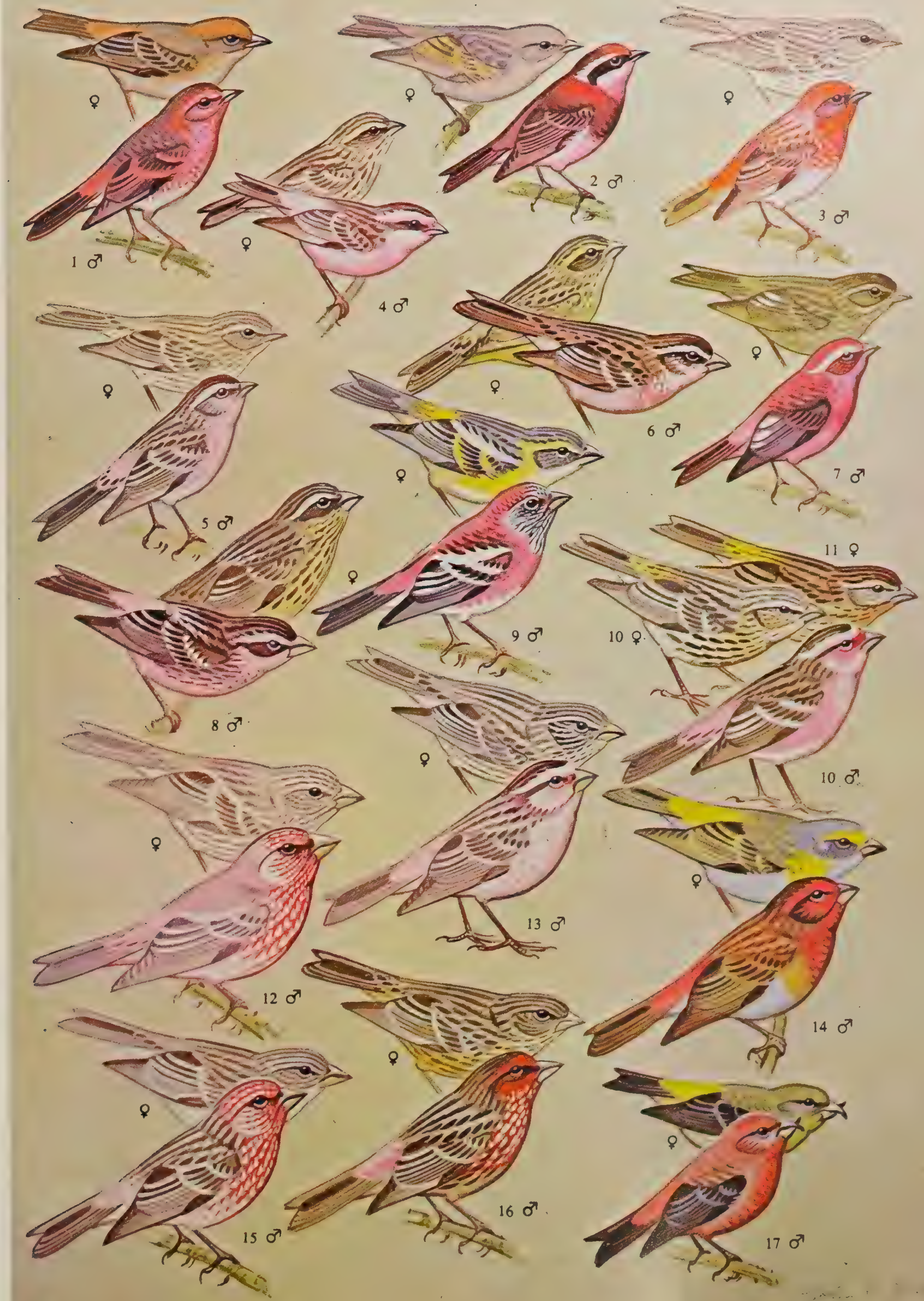
2028. **(12)** EASTERN GREAT ROSEFINCH *Carpodacus rubicilloides* R Bulbul ±: 19 cm. *Caragana*, willow and *Hippophae* scrub in arid country. Northern Himalayas and Tibetan plateau from Ladakh east to Bhutan. Breeding c. 3700-4800 m.

2031. **(16)** REDBREASTED ROSEFINCH *Carpodacus puniceus* R Bulbul ±: 20 cm. Steep, rugged mountainsides. Himalayas from Gilgit east through Baltistan, Ladakh and Kashmir to Arunachal Pradesh. Seasonally, c. 1500-5200 m.

2032. **(17)** CROSSBILL *Loxia curvirostra* R Sparrow ±: 15 cm. Coniferous forest. From Himachal Pradesh (Lahul and Kulu) east through Bhutan and Arunachal Pradesh; c. 2700-4000 m.

2033. **(14)** REDHEADED ROSEFINCH *Propyrrhula subhimachala* R Bulbul ±: 20 cm. Dense rhododendron, juniper and willow scrub and light forest with dense bush undergrowth. E Himalayas; NE hill states. Seasonally, c. 1800-4200 m.

PLATE 102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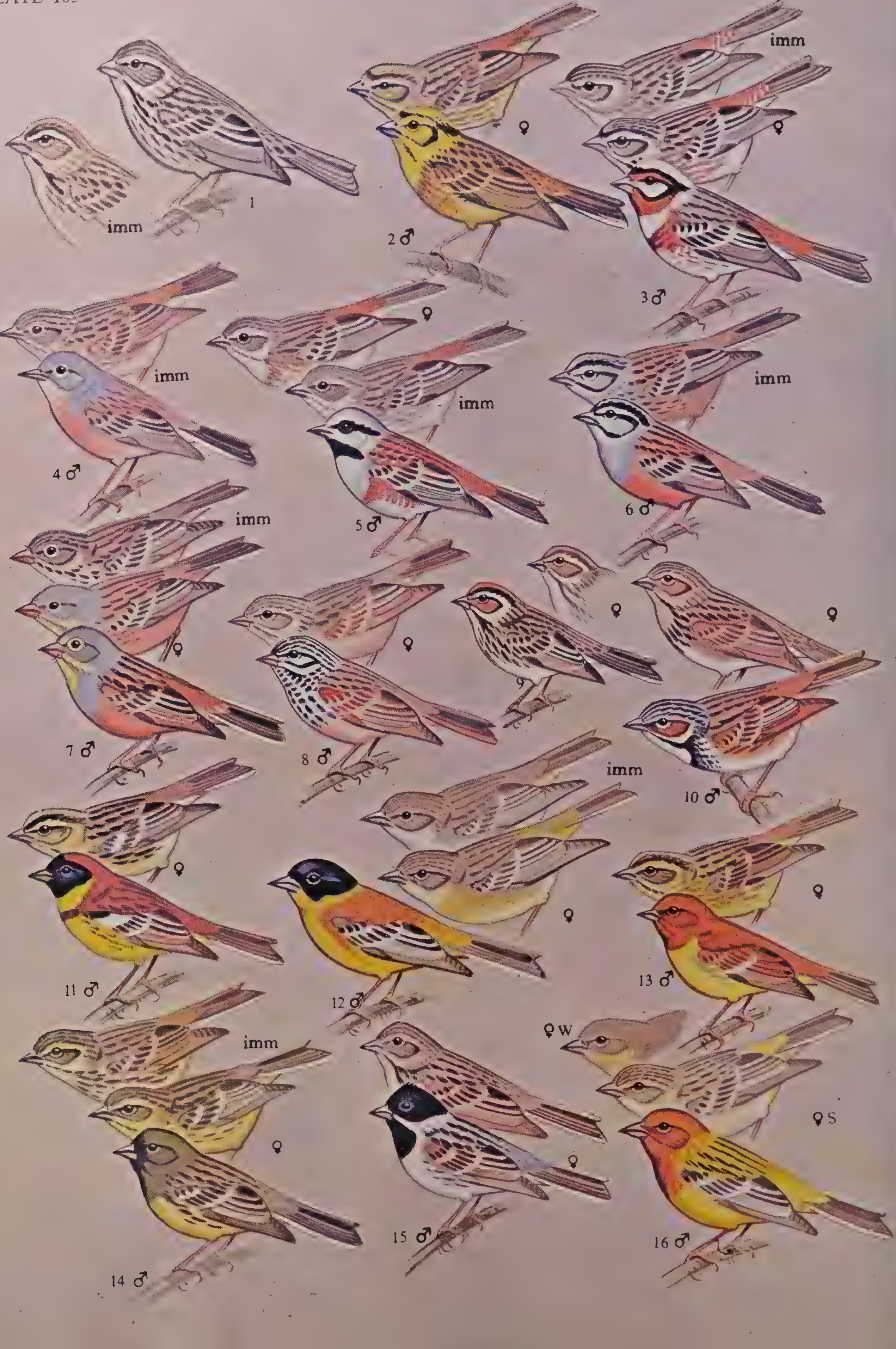
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PLATE 103

2041. **(1)** CORN BUNTING *Emberiza calandra* V Bulbul – : 18 cm. Waste ground. Jhang district, Pakistan (once).

2042. **(3)** PINE BUNTING *Emberiza leucocephalos* M Sparrow + : 17 cm. Bush-covered grassy slopes and cultivation. N Baluchistan (Quetta) from NWFP and east through Gilgit, Kashmir and the Himalayan foothills to Nepal; up to c. 1500 m.

2043. **(12)** BLACKHEADED BUNTING *Emberiza melanocephala* M Sparrow + : 18 cm. Cereal cultivation. Pakistan; N, W and C Indian plains; also Punjab.

2044. **(16)** REDHEADED BUNTING *Emberiza bruniceps* RM Sparrow + : 17 cm. Cultivation, especially grain fields. *Summer*: N Baluchistan. *Winter*: Plains of N, W and C India; Bangladesh.

2045. **(13)** CHESTNUT BUNTING *Emberiza rutila* M Sparrow ±: 14 cm. Rice stubble, bushes in cultivation and forest clearings. Nepal, Sikkim, Jalpaiguri duars, Manipur, N Cachar.

2046. **(11)** YELLOWBREASTED BUNTING *Emberiza aureola* M Sparrow ±: 15 cm. Cultivation and grassland, hedgerows, gardens, etc. Nepal, Sikkim, NE India, Bangladesh, N Bengal; up to c. 1500 m.

2047. **(14)** BLACKFACED BUNTING *Emberiza spodocephala* M Sparrow ±: 15 cm. High grass, bamboo and scrub jungle, hedgerows, ricefields and reedy marshes, up to c. 1000 m. NE India and Bangladesh; also the Jalpaiguri and Sikkim duars, west to Kathmandu valley.

2048. **(5)** WHITECAPPED BUNTING *Emberiza stewarti* M Sparrow ±: 15 cm. Rocky or grassy hillsides, scrub jungle. *Summer*: N Baluchistan; W Himalayas. *Winter*: NWFP and Salt Range east to Nepal; the plains of NW India south to NE Maharashtra; Kirthar Range in Sind. Seasonally, foothills to c. 3600 m.

2049. **(7)** ORTOLAN BUNTING *Emberiza hortulana* V Sparrow ±: 15 cm. Orchards or grassy slopes with bushes. Recorded only from Gilgit (twice), Kashmir (once) and Delhi (once).

2050. **(4)** GREYNECKED BUNTING *Emberiza buchanani* M Sparrow ±: 15 cm. Dry stony foothills with sparse bushes; sparsely shrubbed country and broken hillsides (winter). *Summer:* N Baluchistan and the Afghan Safed Koh. *Winter:* W, N and C India south to Karnataka. Sparsely in Sind.

2051 to 2054. **(6)** ROCK BUNTING *Emberiza cia* RM Sparrow ±: 15 cm. Grassy and bush-clad slopes in boulder-strewn country, juniper and open pine forest. W Himalayas; SE Tibet and Arunachal Pradesh. *Winter:* Pakistan and N India. Seasonally, foothills to c. 4200 m.

2055. **(10)** GREYHEADED BUNTING *Emberiza fucata* R Sparrow ±: 15 cm. Bushes on hillsides, along rivers and on swampy ground. W Himalayas, seasonally, foothills to c. 2700 m.

2056. **(9)** LITTLE BUNTING *Emberiza pusilla* M Sparrow – : 14 cm. Reeds, grass, rice stubbles and scrub, about cultivation in open country. W Himalayas (rare); E Himalayas; NE hill states; Bangladesh (hill tracts).

2057. **(8)** STRIOLATED BUNTING *Emberiza striolata* R Sparrow – : 14 cm. Rocky or stony, sparsely scrubbed hillsides and nullahs, ancient forts and ruins, etc. Baluchistan, Sind and Punjab Salt Range; N and C India.

2058. **(15)** REED BUNTING *Emberiza schoeniclus* M Sparrow – : 14 cm. Reed-beds, tall grass and bush jungle in riverain country. Sind, N Baluchistan, NWFP, Punjab, Gilgit and NW India in Punjab and Haryana.

EL. **(2)** YELLOWHAMMER *Emberiza citrinella* Europe, W Asia.

PLATE 104

794. **(1)** .HONEYGUIDE *Indicator xanthonotus* R Sparrow ±: 15 cm. Conifer, dry deciduous or subtropical wet forest with cliffs and combs of rock bees. Himalayas; Nagaland; Manipur; c. 1500-3500 m.

1981. **(8)** HAWFINCH *Coccothraustes coccothraustes* M Sparrow ±: 18 cm. Groves, orchards, gardens and wooded foothills. N Baluchistan; NWFP.

1982. **(9)** BLACK-AND-YELLOW GROSBEAK *Coccothraustes icterioides* R Myna ±: 22 cm. Pine, silver fir and deodar forest. W Himalayas, c. 1500-3500 m.

1983. **(10)** ALLIED GROSBEAK *Coccothraustes affinis* R Myna ±: 22 cm. Oak, rhododendron, or mixed conifer and broadleafed forest. Himalayas, c. 1800-4000 m.

1985. **(13)** WHITEWINGED GROSBEAK *Coccothraustes carnipes* R Myna ±: 22 cm. Fir, rhododendron or juniper and mixed forest. Baluchistan; Himalayas; c. 1500-4000 m.

1986. **(11)** SPOTTEDWINGED GROSBEAK *Coccothraustes melanozanthos* R Myna ±: 22 cm. Mixed conifer and broadleafed forest. Himalayas, c. 600-3600 m.

1997. **(3)** REDBROWED FINCH *Callacanthis burtoni* R Sparrow +: 17 cm. Open forest of fir, pine, deodar or birch. Himalayas, c . 1800-3000 m.

2034. **(2)** SCARLET FINCH *Haematospiza sipahi* R Bulbul –: 18 cm. Open conifer forest. Himalayas from Garhwal east through Bhutan and Arūnachal Pradesh, south through Meghalaya; c. 1600-2400 m.

2035. **(12)** GOLDHEADED BLACK FINCH *Pyrrhoplectes epauletta* R Sparrow ±: 15 cm. Rhododendron and ringal bamboo undergrowth. Himalayas from Garhwal east; c. 1400-3900 m.

2036. **(4)** BROWN BULLFINCH *Pyrrhula nipalensis* R Sparrow +: 17 cm. Dense fir, oak and rhododendron forest. Himalayas; NE hill states; c. 1500-3900 m.

2038. **(7)** BEAVAN'S BULLFINCH *Pyrrhula erythaca* R Sparrow +: 17 cm. Conifer and rhododendron forest. E Himalayas, c. 2000-3800 m.

2039. **(6)** REDHEADED BULLFINCH *Pyrrhula erythrocephala* R Sparrow +: 17 cm. Deciduous forest. Himalayas, c. 1500-4200 m.

2040. **(5)** ORANGE BULLFINCH *Pyrrhula aurantiaca* R Sparrow ±: 14 cm. Open fir, birch and mixed forest. W Himalayas, c. 1600-2700 m.

2060. **(14)** CRESTED BUNTING *Melophus lathami* R Sparrow ±: 15 cm. Dry, stony, sparsely scrubbed hillsides; rice stubbles and open stony dry-deciduous jungle and charred grassland (winter). Himalayan foothills; NE hill states; Bangladesh; most of continental and peninsular India. Up to c. 1800 m.

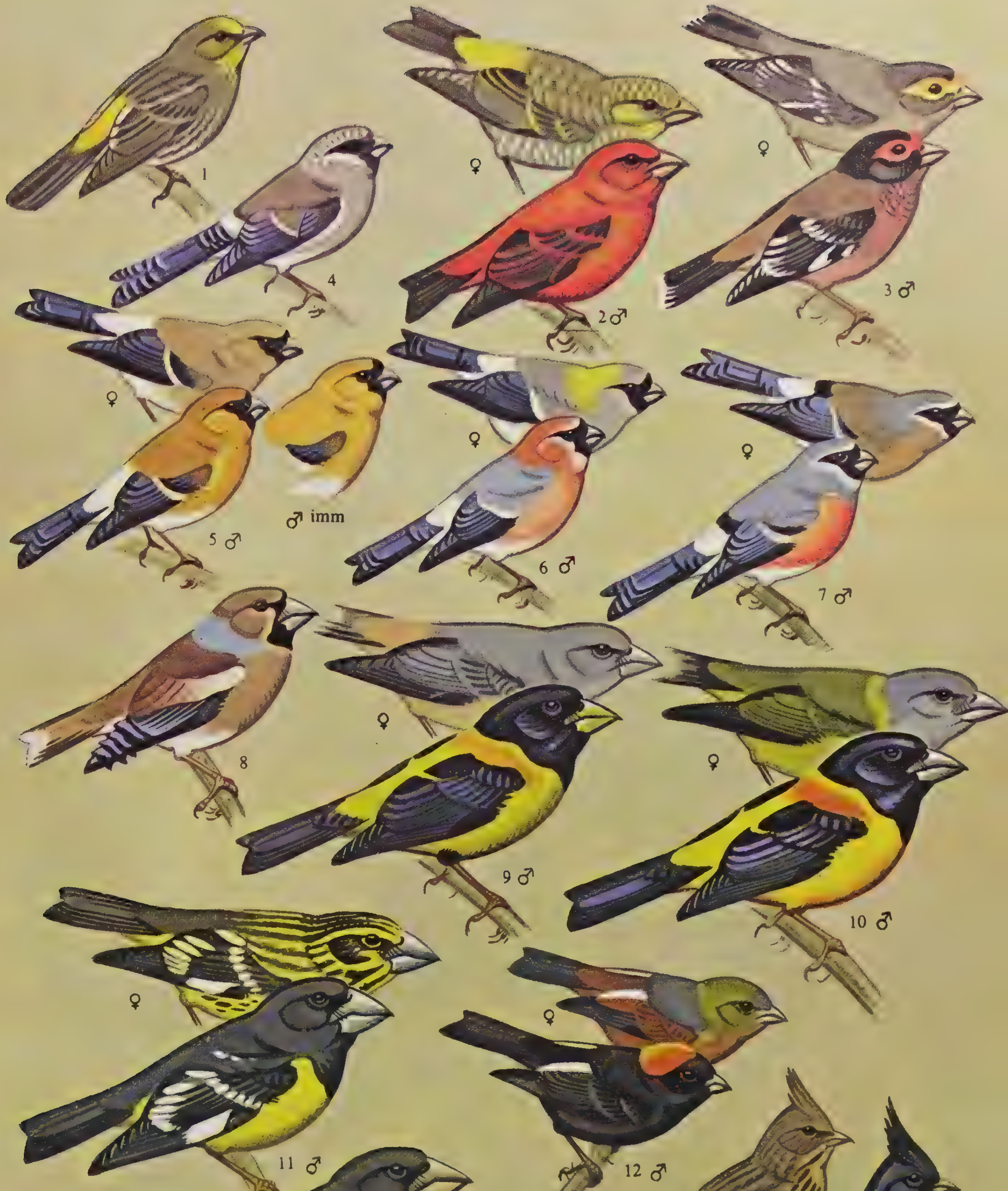
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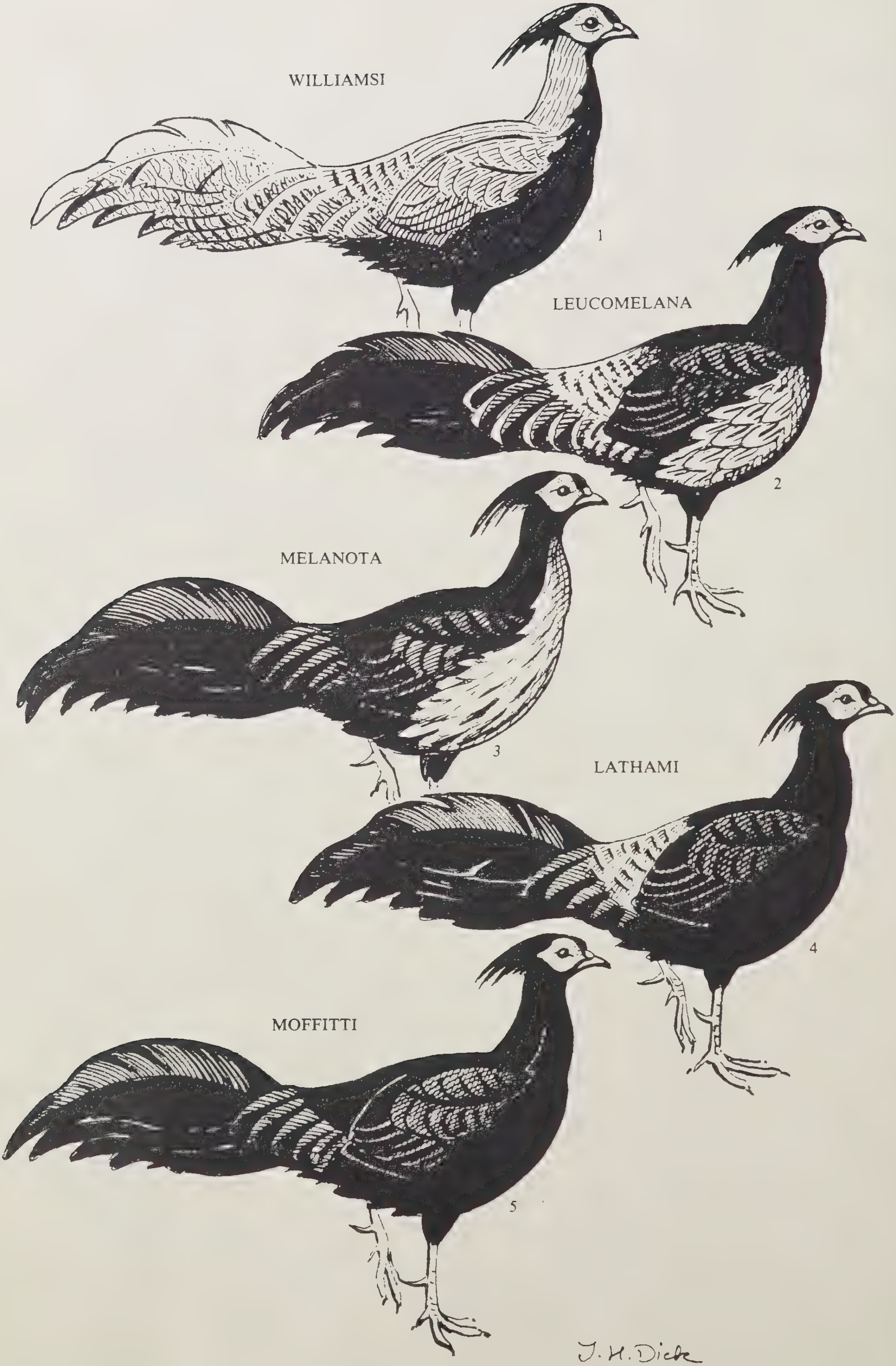
PLATE 105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J. H. Dick

PLATE 105

Subspecies of the Kaleej Pheasant *(Lophura leucomelana)*

294. **(2)** NEPAL KALEEJ *L.l.leucomelana* R Village hen ±: 60-68 cm.
See Plate 35

295. **(3)** BLACKBACKED KALEEJ *L.l.melanota* R Size same as 294. Overgrown ravines on hill slopes. Himalayas 600-2700 m; E Nepal to W Bhutan.

296. **(4)** BLACKBREASTED KALEEJ *L.l.lathami* R Size same as 294. Overgrown ravines and gullies on hill slopes. Himalayas 100-2600 m; E Bhutan eastward; NE hill states; Bangladesh (Chittagong).

297. **(1)** WILLIAMS'S KALEEJ *L.l.williamsi* R Size same as 294. Habitat as in other subspecies. Possibly extends from contiguous Chin Hills area of Burma into E Manipur and Mizo.

298. **(5)** MOFFITT'S KALEEJ *L.l.moffitti* R Size same as 294. Habitat unknown: presumably same as in other subspecies. Distribution enigmatic as type specimen came from animal dealer: possibly C Bhutan?

PLATE 106
Tails of Snipes (Genus *Gallinago*)
(Only half shaded)

404. **(6)** SOLITARY SNIPE *Gallinago solitaria* RM Partridge ±: 31 cm. Sprawling boggy mountain streams interspersed with grassy hummocks. Himalayas 2800-4600 m; down to base of hills and plains level (winter).

405. **(4)** WOOD SNIPE *Gallinago nemoricola* RM Partridge ±: 31 cm. Swampy patches amidst tall grass and scrub in hilly country. Himalayas 1300-3700 m. Scarce in peninsular India (winter).

406. **(3)** PINTAIL SNIPE *Gallinago stenura*
See Plate 41

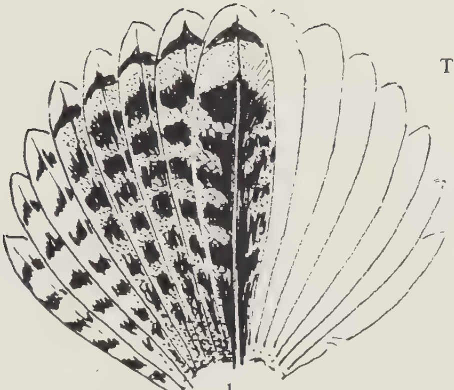
407. **(2)** SWINHOE'S SNIPE *Gallinago megala* M Quail +: 29 cm. Marshy edges of jheels, wet paddy stubbles, etc. Subcontinent (winter).

408. **(1)** GREAT SNIPE *Gallinago media* V Quail +: 27 cm. Marshland. S India; Sri Lanka; Andamans (winter).

409. **(5)** FANTAIL SNIPE *Gallinago gallinago*
See Plates 41, 43

410. **(7)** JACK SNIPE *Gallinago minima*
See Plate 43

Tails of Snipes Genus (*Gallinago*)



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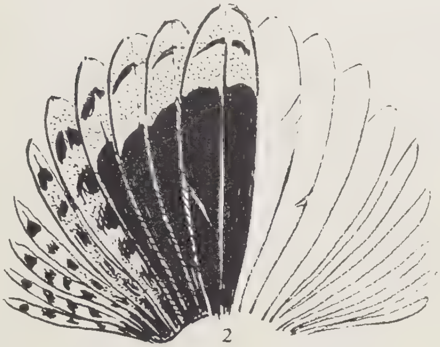

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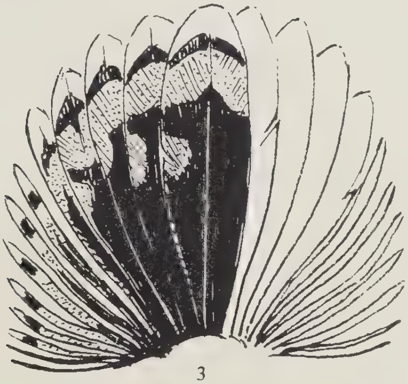

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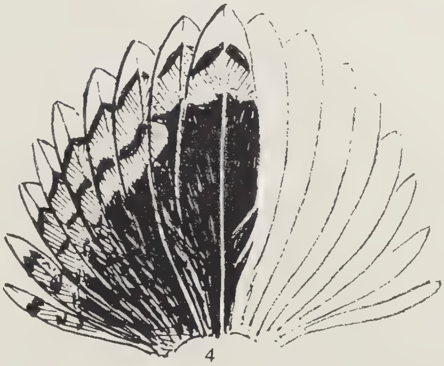

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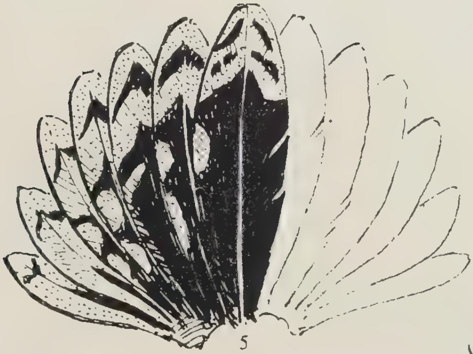
G. NEMORICOLA



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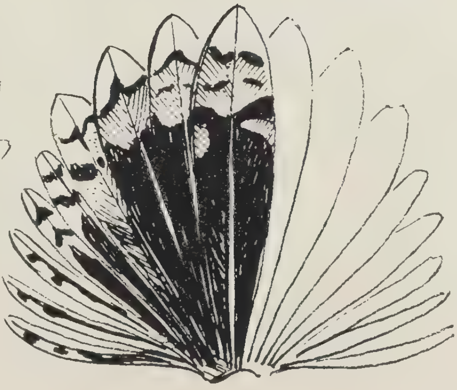
G. GALLINAGO



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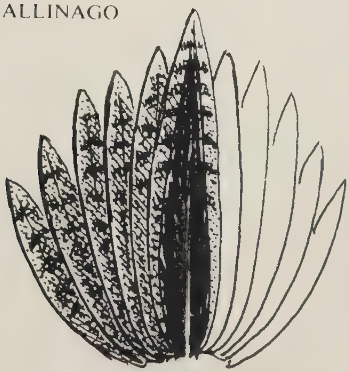

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J. H. Dick

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NOTES

JOHN HENRY DICK

John Henry Dick is one of America's foremost bird artists. His interest in natural history was sparked off during boyhood hunting trips with his father in Islip, Long Island. Two years at the Yale Art School helped him to develop his natural artistic talent. John Dick is a widely travelled man: some of his more spectacular trips include expeditions to the Northern and Southern Polar regions, Africa, New Guinea, Galapagos and India. Among the many books illustrated by him are *The Warblers of America, A Gathering of Shorebirds, Carolina Low Country Impressions, World of the Great White Heron, Bird Watcher's America* and a comprehensive field guide to the birds of China. He is also author-illustrator of *Other Edens: The Sketchbook of an Artist-Naturalist,* an autobiographical record of natural history, based on his travels throughout the world. John Dick's other interests are wildlife photography and breeding waterfowl and game birds. He is a keen conservationist, closely associated with the Audubon Society, International Crane Foundation and other organisations working to preserve nature. He lives on his 1000-acre plantation on the edge of a tidal salt marsh in South Carolina. The plantation is maintained as a wildlife sanctuary and is eventually to be gifted away to the National Audubon Society.

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